Marca	Model	Difetto	Cura
Aim	AR276	Stops aft 10 mins	R443 6R8 hi res
Aiwa	CX707	No RF O/P	C259 next to RF modulator negative lead broken away
Aiwa	CX7KE	Capstan attempts to run in reverse	Resolder connector CN601 and FG pulse pickup sensor on capstan motor board.
Aiwa	FX2500	Won't rew - locks up & have to reset power when trying	Loose pin in brake/clutch ass'y
Aiwa	FX2800	No display aft 12hrs - otherwise ok	Check C517 & D513 in psu
Aiwa	FX3500	"Wait" in display when tape about to rewind all other functs ok	Replacing lower drum cured it
Aiwa	FX4300	Won't accept tape, no front control, clock ok & will sw on/off & change chan via r/c	Disconnected from mains for 2 days - when reconnected works ok again
Aiwa	FX4800	PIN code locked - to unlock	Enter any pin code 3 times when message"Pin code error protected" appears hold down CH DOWN on VCR & "7" on hset for 5 secs. "OK" then appears in display
Aiwa	FX7700	RF Adj	With VCR on in stop mode press & hold BOTH channel buttons. You can then alter or switch off RF output. Once set press standby to store.
Aiwa	FX7700	Unable to remove anti-theft protection by pressing "Ch-" and "7".	First disable the child lock by pressing the "lock" button on R/C, and only then press "Ch-" and "7".
Aiwa	GX800	Unlock code	press chan up and record on front of vcr for five seconds
Aiwa	HFVX2800	Cass mech jammed	Item 403 cass housing load arm broken - replaced & straightened various bits of metal
Aiwa	HVF125	continous rewind	tape didn't fully lace as p roller seized at top of shaft due to hardened grease
Aiwa	HVF125	No RF out	IC307 N10 cct prot o/c
AIWA	HVF3500	INT MECHANICAL PROBLEMS	REPLACE LEADS TO BOTH CAPSTAN AND DRUM MOTORS
Aiwa	HVFX11K	Wow & poor sound	C8 47µ 50v in psu
Aiwa	HVFX1500	Int chews tape	Sub brake lever replaced
AIWA	HVFX1500	LOSS OF CAPSTAN LOCK	REPLACE REEL BRAKE ASSY
Aiwa	HVFX1500	No drum	Stator motor M2003 Pt no S589510070
Aiwa	HVFX1500	Shut down during loading/eject - int	Mode sw
Aiwa	HVFX1500	Wont eject tapes	Cass housing fault - slide lever item 429 broken
AIWA	HV-FX1500	BLANK RASTER ON E-E	CHECK D4509 ON TERMINAL PCB FOR S/C
Aiwa	HV-FX1500	Wow on sound esp near end of tape	Replace tension band, lub capstan
Aiwa	HVFX1500K	No display - everything else ok	ICP501 315mA o/c
Aiwa	HVFX2500	Col in pback poor or missing	C618 10µ 50v connected to pin 7 IC601 faulty
Aiwa	HVFX2500	Int cuts out in play etc or completely dead	Connector socket on mains trfmr dry joints
Aiwa	HVFX2500	int rew & switches to st/by	mode sw
AIWA	HVFX2500	NEGATIVE PICTURE ON E-E, PLAYBACK OK	Y/C PROCESSOR FAULTY

Aiwa	HVFX2500K	Capstan motor slows down & erratic tape counter	C612 47µ 50v
Aiwa	HVFX2800	Carriage tries to load without tape	Loads OK when tape inserted - mode sw I tooth out
Aiwa	HVFX2800	Chews/spools tape esp in rew/FF	Clutch gear S orT assembly (see exploded view)
Aiwa	HVFX2800	Head switching out	press auto track button 3 sec press play 4 sec
Aiwa	HVFX2800	Line at bottom of pic - head sw off	To set up play back good rec, centre tracking by holding auto track button for > 2 secs then set sw point by holding play button for >3 secs
Aiwa	HVFX2800	No E-E sound tuner o/p OK	Reset Eprom. To get into service mode, leave unplugged for a few hours then plug in with no aerial holding CH+ and FF buttons in for 3 seconds or more!
Aiwa	HVFX2800	OSD floats across screen & poor pback/e-e	IC4001 TA1232N 54 pin Y/C proc chip
Aiwa	HVFX2800	To adjust head switching	Play good tape press play for 4 secs or more
Aiwa	HVFX2800K	Noise bar at bottom on pre-recs, jumps on own recs	After all the usual (guides, tension etc) checks done found that slight rotation of drum motor on top of heads cured fault
AIWA	HVFX2800K	RECORD DISTORTED PRERECORDED TAPES OK	REPLACE IC4001
Aiwa	HVFX2800K	RF o/p adjusting	Whilst in st/by hold the power button (on VCR) for a few secs. RF ** displayed. Alter with CH +/- buttons & go to st/by to store
Aiwa	HVFX2800K	Tape not wound back into cassette on eject	Mode switch
AIWA	HVFX3500K	NO FF OR REW	REPLACE CLUTCH (ITEM 43)
Aiwa	HVFX3800	PIN UNLOCK	Link pin 3 [TRRST] and pin 4 [GND] of connector CN102 on the main PCB Insert the AC plug. Remove the link on CN102 When next powered the VCR should be security unprotected
Aiwa	HVFX3800K HVFX4800K	Protect mode removal	link pin 3 (TRRST) & pin 4 (GND) of connector CN102 on main pcb. apply power, remove link, when power is re-applied it should be security unprotected.
Aiwa	HVFX5100 HVGX800 etc	Protect mode removal	Press and hold "Chan up" and the "Rec Otr" buttons on the vcr simultaneously for more than 7 secs, "Ok" is displayed on the tv and the protect mode is released
Aiwa	HVFX5100K	Dead	D17 in PSU & over-ride pin code
Aiwa	HVFX5100K	Recordings on some tapes have no control track pulses	Pinch roller - make sure the moulding/spring are fitted back correctly
Aiwa	HVFX55	Various mech faults inc slow ffwd/rew, throws tape out behind p roller, int ejects tape when rew pressed	Mode sw & small spring conns used to link various parts of mech together
Aiwa	HVFX5500HV HVFX6500HV	Protect mode removal	connect vcr to tv with scart lead, switch on, enter any incorrect pin code 3 times, the following message will appear on screen, "PIN CODE ERROR" PROTECTED, simultaneously press & hold CH DOWN on the front panel & 7 on the RCU for 5 secs, "OK" should then appear on the vcr display.

Aiwa	HVFX710	Protect mode removal	I/P wrong Pin code 3 times, Press & hold "CH UP" & "REC/OTR" buttons on VCR for 7secs. Switch to stand-by the back on.
Aiwa	HVFX7500	RF output - sw on & off	With the video on and in stop mode press and hold BOTH channel buttons. You can then alter or switch off the RF output. Once set press standby to store.
Aiwa	HVFX7500 HVFX8500	Protect mode removal	Press & hold "Chan Down" button on vcr for more than 5 secs, release "Chan Down" & within 1 sec press "7" button on rcu, message "Pin code Ok" will be displayed on tv. Enter security menu and ensure protect setting is set to off.
Aiwa	HVFX7500K	Dead with no psu o/p	Replace STRF6552 PSU chopper IC
Aiwa	HVFX7700	No display & won't accept tape	Replace in power supply C116, C119 , C115 , C151, C124 , C124 all high ESR
Aiwa	HVFX7700K	Anti theft prot removal	Disable child lock first by pressing the "lock" button on R/C & then press "Ch -" and "7".
Aiwa	HVFX8500K	Security code disabling	Press & hold "Chan Down" on vcr > 5 secs, release & within 1 sec press "7" on rcu, message "Pin code Ok" will be displayed on tv. Enter security menu & ensure protect setting is set to off.
AIWA	HVG110	LOW AUDIO RECORD	CHANGE R732 FROM 33K TO 18K
Aiwa	HVG800	Unlock code	pressing ch up & rec on the front of the video for 5secs.
Aiwa	HVGKX150K	Sound warbles on rec/pback	Back tension arm oscillating - replacement cured it
Aiwa	HVGX150K	Cuts out aft few secs in Play etc	Take up sensor
Aiwa	HVGX150K	Poor video - sound ok	Check Q553 2SA1037 sm vid driver - goes s/c , overheats
Aiwa	HVGX150K	Wont accept tape - display & e-e ok	Loading motor faulty - can use Amstrad VX1000Y version
Aiwa	HVGX250	If video plus start time is more than 5 hrs from present time VCR will only record blue screen	No Known cure as of yet.
Aiwa	HV-GX250K	Slack tape on eject - int	Mode sw
Aiwa	HVGX350	Dead	CP19 & 25
Aiwa	HVGX350K	Dead - all display symbols lit up prior to its demise	CP11 33µ 25v, CP19 1000µ 10v, CP21 47µ 50v, CP25 100µ 10v in psu
AIWA	HVGX350K	DIM DISPLAY	REPLACE CP25 100MFD16V IN POWER SUPPLY
Aiwa	HVGX350K	Dim Display	CP25 100µ 10v in psu
Aiwa	HVGX500	No drum rotate/runs fast/unstable	Drum ribbon cable pt no S8-065-130-110
Aiwa	HVGX500	Won't accept or eject tape - tape accepted fast	Capstan ribbon cable pt no S8-065-130-120
Aiwa	HVGX500	Wow &/or warble on sound	Ribbon cable connections on underside of board int -mod ribbon cables available
Aiwa	HVGX500K	Int fails to rewind	Mode sw faulty though may look perfect
Aiwa	HVGX750	Pin code unlock	Enter incorrect pin 3 times - PIN ERROR PROTECTED will appear. Press & CH DOWN on set and 7 on r/c for 5 secs, ok will appear.
Aiwa	HVGX770K	Dead	R503 & R505
Aiwa	HVGX770K	Dead - no display	D517 5v rect SB340L Schottky diode - use 1N5822 in lieu

Aiwa	HVGX770K	Pin code removal	1. Power on 2. Press both "CH/UP" key and "REC/OTR" key for more than 2 seconds. 3. "OK" will appear on the FL display.
Aiwa	HVGX850	No sound playback or e-e, nothing inc no osd from scart	10 v reg i.c. near front RH side of motherboard.
Aiwa	HVGX900	Accepts tape but doesn't load - no FFwd/Rew & ejects tape aft few secs	No capstan motor rotation even tho' both the 12V and 5V supplies were present along with approx. 2.5V on the CTL terminal - capst motor faulty
Aiwa	HVGX900	Timer can't be selected from menu & no Videoplus	Left it unplugged for 10 days sorted it
Aiwa	HVGX930K	PIN code removal	Enter any pin code 3 times when message"Pin code error protected" appears hold down CH DOWN on VCR & "7" on hset for 5 secs. "OK" then appears in display
Aiwa	HVGX950K	Pin code removal	I/P wrong code 3 times, Press and hold the "CH UP" and "REC/OTR" buttons on the VCR for approx 7 secs sw to st/by then back on
Aiwa	NSX999	Dim display	C107 10µ 50v
Aiwa	NSX999	Display very dim	C107/108 100µ 50v on main pcb near A/V I/Ps
Aiwa	VHFX10	Cass loading problems	Capstan belt
Aiwa	VTX145T	Pin lock removal	Turn set on. Press & hold vol down key on set & channel 7 key simultaneously for more than 2 secs
Aiwa	VXD1420	No full erase	Check pl/skt to erase head for intermittency
Aiwa	VXG140 etc VXT145 etc	Protect mode removal	Press and hold "Vol Down" on the set and the "7" key on the rcu for more than 5 secs. Protection will be released.
Aiwa	VXG142A	Laces up then head drum spins excessively fast	Fitting replacement head drum pcb cured it - sus motopr drive chip JCM5045A
Aiwa	VXT1000	Tape jammed/no rewind	Replace belts & damper on brake slider (SEME part VPAR6833). 2 hidden screws under control flap
Aiwa	VXT1000Mk2	Dead	STK7348 psu chip & C88 0.0033pf 2kv
Aiwa	VXT1000Mk2	No sound e-e	500khz resonator near A/V i/p skts
Aiwa	VXT1010	TAPES ALWAYS REWIND	IC502
AIWA	VXT1400	WOW ON SOUND	REPLACE C523 ON TV PCB 100MFD
Aiwa	VXT1410K	tracking bars, slow sound on pback	ripple on AT5.6v line - C523 100µ 16v on tv chassis
AIWA	VXT141K	POOR PICTURE,WOW ON SOUND, GRADUALLY CLEARING	REPLACE C523 100MFD63V
Aiwa	VXT1420	No col E-E or pback	C117 4µ7 50v
Aiwa	VXT1420	Noise band in pback - can't be removed with tracking control	Replace IC102 XL24C04 eprom from Aiwa - auto head sw now done in play mode - press 'vol -' & 'ch5' on r/c to set tracking centre, then press 'vol -' & 'ch3' to set head sw
Aiwa	VXT1420K	Accepts cassette, spins both directions but will not load	Syscon IC - reel pulses into chip being attenuated by chip (should be 4.4v p-p)

AIWA	VXT1420K	DEAD	REPLACE R502 1M OHM IN POWER SUPPLY
Aiwa	VXT1450K	Dead	F90 o/c
Aiwa	VXT1450K	Int shut down & chewed tapes	capst motor int causing it. Motor available from CPC pt no AWS6-003-030-600
Aiwa	VXT147	Loading motor insufficient torque	Replace IC 504 (12V Reg.) and R534 (56ohm).
AIWA	VXT148	NOT POWERING UP WITH LED FLASHING	REPLACE R519 100K ON POWER BOARD
Aiwa	VXT2010K	Dead with s/c across bridge rect	STK73908 - expensive
Akai	GS270	No RF o/p	To reinstall tuner press 'chan' & 'stop' together. Display now shows'ant off'. Use chan buttons to switch to desired chan.
Akai	GV450	Int loading & drum spins too fast	PG pulse pin 1 IC7050 micro only 3v (5v) - Q7065 BC858B on underside of pcb
Akai	VCSG240 etc	"ERR2" shows aft mech function	Mode sw
AKAI	VS204G	INT JERK ON PICTURE	REPLACE CAPSTAN MOTOR
Akai	VS204G	int momentary change in sound pitch & pic	capstan motor
Akai	VS22	Dead FR2 0R47 o/c	C4 47µ 25v
Akai	VS22	Hum bar on e-e	C6 220µ 25v
Akai	VS22	No RF o/p	replaced modulator
Akai	VS22	Various faults Ripple hum and interference on pic weak deck operations or complete loss of functions	Replace all Electrolytics in PSU
Akai	VS22/23EK	hum on pback and jumps	C6 220µ 25v, C60 1000µ 25v, C4 47µ 25v
Akai	VS23	Transistor T15 in psu overheating	Tr15 2SB1010 leaky - replaced with TIP32
Akai	VS23EK	dead	Tr15, 11, 12 on psu
Akai	VS23EK	no e-e or display	minus 33volt supply low - D19 33v zener & R22 2k2
Akai	VS240EK	Noise Bars on Pback	Lower Drum Block Pt no BVV1123A410A
Akai	VS240EK	Rew slips	Clutch ass'y
Akai	VS25	Dark horizontal lines across entire screen more noticeable in playback	C6 (220UF) C7 (100UF) both 10V in PSU
Akai	VS25	Dead FR2 0R47 o/c	Draws excess I - Tr12 2SD1292, Tr15 2SB1010 leaky -still draws excess I; by removing Tr15 no overloads & vcr operates ok - left out (reason for Tr10/Tr15?)
Akai	VS25	Lines on pic in e-e & pback when cold	C6 220µ 25v
Akai	VS25	Loading very slow	Motor 12v only 8v - Tr6 in psu s/c e-b - ok when replaced
Akai	VS35	Poor pback pic - looks like heads	Lower drum wear - replaced
Akai	VS35	winds/rewinds/plays tapes (with normal picture) for a few seconds or minutes and then stops (and goes to stop mode).The counter is OK	BA6993 op amp faulty - Beware! The IC is marked wrong way rounf on pcb.To check, simply rotate the spool by hand and measure the voltage at the input pin (6) of the IC. It should go low/high low/high continously. Then check if the same is true at the output of the IC. In my case it was not, the voltage at the output was stuck to 5 Volts
Akai	VS422	No display	C446/447 120µ 10v 105deg

Akai	VS422	No display	Tfmr L404 o/c - rewound it (86-89 turns)
Akai	VS422	Poor rew esp near start	Wear on review brake spigot (item 4)
Akai	VS422 VS425	Clock display dim or extinguished	Fit Mod kit (BX744015J) L404 may also be o/c
Akai	VS425	Hum bar on E-E, noisy capstan motor & stops in play	C2 2200µ 25v in psu
Akai	VS425	Line travels down screen on pback	head sw point wandering - SX2777S servo chip
Akai	VS427	Tape loops on eject	Mode sw & replace capstan belt
Akai	VS467	No display	C447 47uF 6.3V located under the screening can on the front part of the main PCB.
Akai	VS467	No pic	check if the "Monitor Select Switch" on the front panel is set to "VCR".
Akai	VS467	Wont stop at stations in search	C8 22uF 16V inside IF can (was high in ESR) and resoldered all suspicious joints
Akai	VS485	No capst rotate in play - ok in ff & rew	D206 by skt WP201 on main pcb
Akai	VS55	Continues to unload tape aft it is unloaded	Check cass housing timing
Akai	VS55	E-E picture has noise bars	Replace C15 (220uF) check others as well
Akai	VS55	Flashing, jumping & lines	C6 100µ 25v
Akai	VS55	Flashing/jumps/lines	C6 100µ 25v
Akai	VS55	Hor patterning	C10 22µ 50v
Akai	VS55	No functs - display ok	Mode sw
Akai	VS55	Reluctant to come out of stand-by if it does capstan is sluggish	Replace C15 (220uF) check others as well
Akai	VS55	Will fail to play, record, FF RWD eject	Replace C15 (220uF) check others as well
Akai	VS55 VS66	Before condemning capstan motor Pt No BM377604J check 9V supply	Check FR2 TR1 in PSU and TR101 on Main PCB
Akai	VS66	Capstan motor stops / quivers	All psu o/ps unstable - C15µ
Akai	VS66	Damages top edge of tape	Raise height of 1/2 load arm by 1/2 a turn
Akai	VS765 VS767	Intermittently stop in play or Picture search	Replace D1 - D4 full wave rectifier on PSU pcb
Akai	VS765 VS767	Will not accept tape and display flashes as tape is inserted	Replace D1 - D4 full wave rectifier on PSU pcb
Akai	VS765EK	Chews tape on eject	Capst motor
Akai	VS765EK	Dead - comes on aft 20 mins	2 x 2200µ caps in psu
Akai	VS765EK	No play, FFWD or REW	Mode sw
Akai	VS765EK	Ticking in rec/play	Pinch roller ass'y
Akai	VS967	Capstan motor works in Fast Fwd And Rewind But not in play	Fusible resistor FR4 o/c

Akai	VSA650	No display or tuner - plays tape	40v & -35v supplies low at connector P1 oins 11 & 40. C24 22µ, C25 1µ & C26 47µ faulty
Akai	VSA650	No pback - no head drum - prev had patterning	C19 220µ 16v in psu (under heat sink)
Akai	VSA650EK	Dead	TH1 2R2 therm overheating due to faulty C24 22µ 50v. 40v supply low at 20v due to L6 1.5mH shorted turns
Akai	VSA650EK	Hi Fi recs noisy on rh chan when played back on another machine	Hi Fi FM envelope recordings low due to lum rec current being set too hi and partially erasing sound
Akai	VSA650EK	No display	20v supply low, check replace caps in psu
Akai	VSA77	Stops int in rec/play	Reel sensor
Akai	VSF10	Poor rew - stops b4 reaching end	Review brake arm - brake slider had broken off
Akai	VSF10	Slow or stops in play	Capst motor sus
Akai	VSF1000	Pback speed increases with cutting out in play/eject	Dry Joints on TR8,TR9,TR10 in power supply. (mounted on Heatsink at rear of video deck).
Akai	VSF10EK	No rew/ffwd - ok in cue/review	Capst & drive heard working - mode sw faulty
Akai	VSF11	shuts down in cue or review & int in Fast Fwd & REW	C3 2200µ 35v in psu
Akai	VSF260EK	Child lock unsetting	Hold power button for approx 15 secs
Akai	VSF280	Int functs/won't accept tape	Mode sw
Akai	VSF280EK	Millenium Bug when setting clock	Set clock to 1968 to get date & date to correspond
Akai	VSF280EK	Turns off between modes	Mode sw
Akai	VSF30	No display , no go FR4 0R72 oc	Check D5 and D10
Akai	VSF30EK	Goes to st/by when tape inserted	No drum - drive chip
Akai	VSF33	Dead with working psu	Check Tr408 2SD1292 on main pcb. If s/c check FB498 4R7 & replace C446/7 56µ 16v. Remove glue near C446/7. Also check FR221 120R near IF module
Akai	VSF33EK	Four bars dispayed but won't sw on	Tr408 near back up cap on bottom pcb dry jioints, R425 0R47 o/c
Akai	VSF33EK	Noise bars over pic	C7 1000µ 16v in psu
Akai	VSF480	Unstable Pback pic	FM wform ok - CCD delay line IC401 faulty
Akai	VSF510	No pic pback - sound ok	check 5v at IC201 - if low D204 leaky or s/c. Mod inc improved diode & 750R series reistor
Akai	VSG215EK	ERR3' & no mechs apart from accept/eject	ERR3 = No drum - FR402 0R2 fusible o/c
Akai	VSG215EK	Err3' displayed & sw off aft cassette inserted	FR402 0.24R fusible o/c - used 0.22R as replacement
Akai	VSG215EK	No capstan	Dry joints on P403 capstan plug on main pcb
Akai	VSG21SEK	ERROR 1 shows & no operation - means s/c across AL supply	Not this time - D201 on main pcb s/c & FR201 fusible o/c & dry joints
Akai	VSG225	Dead aft lightening	TR202 2SD3132 s/c, PH201 opto, IC201 TA676431S leaky, D215 20v prot diode s/c
AKAI	VS-G225E	DRUM SPEED OFF AND NO DISPLAY OR FUNCTIONS	REPLACE C222/226 IN POWER SUPPLY 470µ 25v

Akai	VSG240	Flashes ERR2 in display when r/w selected	Mode switch
Akai	VSG240EK	"Error" displayed when in Ffwd/Rew	Mode sw cleaned
Akai	VSG240EK	Dead - no display	R204 270k in psu o/c
Akai	VSG245	int fail to play aft coming out of st/by with tape laced up & error "3" in display	drum wear causing tape to be thrown out slightly - drum assy replaced
Akai	VSG245	Parts of sound/pic missing in pback with "E03"	Mode switch
Akai	VSG24EK	Wont accept tape	When inserted manually works ok apart from not stopping at tape end - D2 take up end sensor faulty
Akai	VSG270	Shuts down when going from Ffwd to play	Supply spool brake not engaging - dirty mode sw
Akai	VSG270	Won't accept tape housing is 'floppy'	right hand loading arm faulty
Akai	VSG270/470	Jammed carriage	Replace loading block pt no BL-43356LN7 (mod'd part)
Akai	VSG270EK	RF mod won't sw on pushing "Chan" & "Stop" until "Ant Off" shows	Suspect main micro making repair unviable
Akai	VSG271	int stop in play & rec - int no take up	low take up torque - replace reel drive clutch
Akai	VSG271	Won't accept tape	Dry joints lighthouse led D402
Akai	VSG280	Poor take up - rew ok	Take up brake felt pad hardened & dirty - clean up or replace
Akai	VSG295	Cuts out int in LP Rec mode	Fit TR413 & 414 DTC144TK, R520 &521 47k, C505 & 506 10nf & remove links JS401 & 402
Akai	VSG295	Error 2 displayed	Replace load arm CHS pt no 35014MT
Akai	VSG295	Rec pics int snowy	Dry joints C609 10µ 50v in TU +B supply
Akai	VSG295 etc	Stops aft 1hr in LP record	Mod - pt no from CHS 99002332 (SM comps)
Akai	VSG2DPL	Cassette housing askew & jammed	Usually caused by RH loading block BL-433561N4 but in this case a pin on loading slide had broken (should engage with spring on loading block) - pt no ML-433567N1
Akai	VSG2DPL	Won't accept tape & 'error2' displayed	Mode sw
AKAI	VSG415EK	ERR1 AND ERR2	ERR1 MEANS POWER FAULT ERR2 MEANS MECHANICAL
Akai	VSG415EK	No sound/pic in E-E & sound only in Pback	7809 on mother board near psu connector
Akai	VSG425EK	Tape jammed in , locked in one mode , no display or display slow to appear , display flashes slowly , head rotates very fast or all of above (randomly !!).	X401 dry jointed or one leg broken away from PCB .
Akai	VSG445EK	Int shows error 2	Mode sw dirty
Akai	VSG470	loads & plays only with cover removed	Lighthouse led dry jointed due to a knock by a backwards cassette
Akai	VSG735EKN	Chews tapes - no FF/RW or Play	FR402 0R1 o/c - supply to capst motor but motor faulty
Akai	VSG745	Int Ffwd & Rew	mode sw
Akai	VSG745	Int stopping & sw off	Dry joints con L203 in psu sect of main pcb
Akai	VSG745	No e-e sound - pback ok	Xtal X1 dry jointed on Nicam pcb
Akai	VSG745	Shuts down in e-e mode every 10mins	In 2nd level of menu - was set to "auto off"

Akai	VSG745	Slack tape on eject	mode sw
Akai	VSG745E	Wont accept tape - display & e-e ok	Check mode sw & arm loading block for bent/broken
Akai	VSG745EK	Dead with fading squeal from psu at sw on	D216 badly dry jointed, C221 swollen & D215 20v zener BZV55-C20 S/C.
AKAI	VSG745EK	LOSES DISPLAY AND FUNCTIONS INTERMITTANTLY	POSSIBLE DRY JOINTS ON TR201 ON MAIN PCB
Akai	VSG770	Blips on playback - int	Drum earthing brush - under drum pcb
Akai	VSG770	Error 1' int appears & shuts down	sw tr Tr215 leaky, also check D236 & 237 zeners
Akai	VSG781EK	Won't accept cassette	Mode sw dirty
Akai	VSG796	Err 3 displayed - no drum rotation	Due to crack in print near main board conn to drum motor
Akai	VSG815	cassette jams	no brake release - Lever M lost its location req replacement
Akai	VSG815	Int chews tapes in timer mode	Mode switch
Akai	VSG878	Dead	Tr1 in psu s/c also check D1-4, R2, R3 & Tr2
Akai	VSJ217	No rewind & slack tape on eject	Clutch ass'y broken
Akai	VSJ411	Tape stuck in machine with Pwr LED flashing	C116 1000u 16v in psu
Akai	VSJ717	FFwd & Rew slow - other functs ok	Clutch had fallen apart
Akai	VSJ717	No sound e-e or pback	IC801 TDA9605
Akai	VSJ719	No playback - all other functs ok	Check childlock
Akai	VST719EK	Tape accepted goes down then is ejected	Check if take up loading arm is jammed against slide plate (must remove deck & quadrant gear ass'y first). Can be released and then reassemble deck taking care with timing
Akai	VSX470EGN	Poor e-e & playback pictures very scratchy. Power supply getting very hot .	C4 120µ under metal can
Akura	VX100	Blank raster on pback & e-e	Q101 on rear panel overheating. Caused by C011 on power supply 330mfd 16v . (its in the small can)
Akura	VX110	Wont accept tape - will eject if loaded manually	Volts to load motor low - D702 in psu o/c (behind syscon chip)
Akura	VX150	Dead - no display	6v rail low at 4.5v - C801 2200µ 16v in psu
Akura	VX150	Hum bar e-e	C301/302/303 in psu
Akura	VX150	mechs jammed	post capstan tape guide operating pin bent & detached from track in cam
Akura	VX160	Int Pback FM	LA7376 FM amp chip in head pre - amp can int
Alba	VCP3000	Chews tapes	Mode switch, idler bent or idler spring
Alba	VCR2222	Tape jammed	remove by hand & check mode sw
Alba	VCR6200	Runs too fast in Play; all other functs ok	Capstan motor
Alba	VCR7000	Tuning drift	C501 dry jointed
Alba	VCR7130	Display shows "YCEO" & "E6" instead of Chan No.	Reset by s/c "reset" pin to chassis on main pcb
Alba	VCR7200	Drum speed too fast & switches off	C6031 10µ near reel sensor
Alba	VCR7200	flashing '3' only	reset by dis'ing cap 'battery' then reconnect
Alba	VCR7340T	No R/C operation	Hset appears ok on tester but nevertheless worked ok when all connections resoldered

Alba	VCR7350	Chews tape on eject & other odd mech faults	Mode sw (Akai deck)
Alba	VCR7900	Loads tape around head as normal then unloads & sw off - worst when cold but int	Drum flip flop pulse at pin 3 IC101 (head preamp) missing when faulty. Volts supply to chip only 4.2v at pin 1(4.8v) Caps in psu C801 2200µ 16v, C301/303 100 50v all hi esr - ok when replaced
Alba	VTV10	Unlocked pic - tracking errors	Check ribbon cable from tracking control to main pcb for dry joints
Amstrad	4600	works perfectly with some tapes, but with others recorded sound is very low.	solder all connections on Audio / Control head assy
Amstrad	DD8900	Deck stops after a couple of secs	Reel sensor Comes as Pt No 250827
Amstrad	DD8900	E-E pic very poor	Check/replace caps in IF can
Amstrad	DD8900	No take up	felt pad on soft damper dropped off causing reel to stick - fit another pad
Amstrad	DD8900	Top Deck inop & display only partly lit	IC501
Amstrad	DD9900	Tape guides wont adj for playing pre-recs	Sus warped deck - scrap deck used as a peplacement
Amstrad	TVR3	2 white horiz lines on pback	10µ 16v on head drum motor
Amstrad	TVR3	No pback col	check wform at test point 9. If not present IC1 AN3331K in head amp could be faulty
Amstrad	TVR3	Reverts to st/by aft few secs	loading motor plug on housing loose
Amstrad	UF20	No FF or Rew	M - lever holder assembly under main cam CPC - AM255034
Amstrad	UF30	Dead - 1.6A fuse o/c	Q1002 2SC4517 s/c, Q1001 2SC4204 o/c. OK aft replacement
Amstrad	UF40	Ejects cassette OK in service mode If sensors covered then tape winds slowly forward then ejects	Ic6001 leaky pin 46 to chassis
Amstrad	UF40	Int ffwd/rew with noise from idler ass'y	Check loading belt
Amstrad	UF40	No end stop or auto rewind	small pluggable pcb in "SERV" instead of "NORM" posn
Amstrad	UF40	Poor pback pic	Dry joints on edge connector from head on main pcb
Amstrad	UF40	Poor Rew/Take up	Replace FFwd/Rew idler and change arm (U shaped lever)
Amstrad	UF40	Stops aft 10 sec in any mode	dry joint reel lamp assy
Amstrad	VCR300	Tape counter reads excessively	Hidden clip in capstan motor taking reel pulses was bad connections
Amstrad	VCR300	When tape inserted counter goes berserk	TU reel path to edge conn hi res spring clip connectors
Amstrad	VCR400	Accepts a tape then shuts down with no display - eventually works - display always dim	Replace caps in DC-DC converter can
Amstrad	VCR400F	no rec sound - pback sound ok	Pin 21 IC201 audio lost even tho pin 24 correct H signal - chip faulty
Amstrad	VCR4500	Dead	1.6A fuse o/c
Amstrad	VCR4500	No display - all functs ok	R662 27R in psu o/c (12v feed)
Amstrad	VCR4600 II	Dead	IC603 78M05A or IC651 78L05A
Amstrad	VCR4600 II	No capstan	R402 3R3
Amstrad	VCR4600 II	No e-e, no display, pback ok	R602 1k2 o/c
Amstrad	VCR4600 II	No mechs - funct shows in display	R529 3R3 o/c
Amstrad	VCR4600 II	Off aft 2 secs	Q651 2SB892

Amstrad	VCR4600 II	Tape stuck no eject	cass load motor
Amstrad	VCR4600 Mk1	SLOW CAPSTAN	IC302 BA718 OC
Amstrad	VCR6000	Capst speed fast in play	ok on own recs - check reel belt hasn't wedged under capst belt
Amstrad	VCR6000	dead	psu o/ps correct, volts around main micro low. IC651 5v reg o/p low - faulty
Amstrad	VCR6000	Guide poles only move small amount between play & stop which damages tape on eject	Mode sw - difficult to get at
Amstrad	VCR6000	Int goes into pause, external etc & reqs several attempts to carry out commands	Sus hash on volts lines - replaced C501,502, 503, 504 100µ 50v; C509, 513, 507 220µ 10v
Amstrad	VCR6000	No play - shuts down aft few secs	dry capstan bearings
Amstrad	VCR6000	No rew/ffwd	1.Rubber pad item 41 which brake plate pushes against worn 2. File trigger lever or replace
Amstrad	VCR6000	Tape int jams - touching loading gears frees it	Mode belt slipping - replace
Amstrad	VCR6100	Int wont eject & 1/2 load arm left in unload posn	The small unload motor was faulty (not present on basic models)
Amstrad	VCR9500	PSU blow up	D09 s/c was the cause
Amstrad		Tuning over whole range not possible	R709 47k o/c
Awai	FX11	Int accept / eject tape	mode sw
B & O	4500/5000	Int faults such as tape stuck, runs too fast & int control faults	Capstan motor drive chip caused by black gunge - replace chip which is cheap
B & O	V6000 turbo	Int chews tapes	Due to machine int powering down due to dry joints psu
B & O	VX7000	Int poor pback pics	Dry joints at head amp connections in drum ass'y
B & O	4539	noisy sound with dropout	sm caps on capstan motor
Baird	142L	No display	C446/447 56µ 16v
Bush	BTV10	No sound/pic in rec or play	R24 1R in video sect psu
Bush	BTV14	Dead apart from 'plopping' noise	5v supply on vcr pcb low - IC661 KIA7805
Bush	VCR1767	slow to load, play ff, rw or eject	12v supply to capstan motor low. C806 47µ 16v
Bush	VCR3402	Hum bar on E-E & gain low	C803 100µ 50v
Bush	VCR805	Won't accept tape unless led beam interrupted & then straight away ejects	Caused by mechs mistimed
Bush	VCR807	Dead	R506 220k o/c start up
Bush	VCR809	No col Pback - hum on sound	22µ res cap in psu
Bush	VCR810P	ERR2 displayed - means mech jammed	Mode sw
Bush	VCR8150	Int full erase leaving prev soundtrack & flicker on pic	C410 47µ 16v in bias osc stage
Bush	VCR815VP	Dead? - not sure	IC501 PQ30RV21 = part no 10GA9RV210. It's the regulator for the AT14V rail (i/p on pin 1 o/p on pin 3)

Bush	VCR817VP	Adj RF mod	From standby---press and hold on/standby button on front of VCR. After about 5 seconds the RF channel will be shown---which you can adjust with the CH+ or CH- buttons--switch off to set.
Bush	VCR820VP	Tuning mode access	Press power & Play button on vcr together
Bush	VCR830VP	Functions int - jams in eject	Clean mode sw contacts
Bush	VCR880	No col Pback - ok in e-e	C019, 470µ16v on outside edge of board close to sw mode tx
Bush	VCR880NVP	"PL" in display & no functs - Parental Lock is set	To disable this, switch the set into standby and power on, keeping the power button pressed on the remote for about 5 secs!This should enable normal functions
Bush	VCR890PDC/ U19	Dead - no display or functs	C018 330u 16v in psu sec
Bush	VCR902	Dead	replaced the following…; Q503 chopper output (2SC3752) S/C; Q501 chopper driver (2SD734) O/C; D502 leaky (fitted 1N4148); R507 1R8 1W O/C
Bush	VCR902	Dead with strange sw mode power transformer osc	R510, R511 330k 1/2w, if fuse blackened check bridge rect & R507 1R8 1w. If R507 o/c replace Q503-2SC3752M, Q501-2SC2120, Q504-LTV 817M-V8, IC 501-KIA 431L. If after replacing these the set is still dead,check D502/D508 (ISS 133)
Bush	VCR902	No playback pic, sound & e-e ok	C4069 sm off pin 20 of IC 401.
Bush	VCR905	Won't load with cass in display perm lit	P con 5V rail was low, replace Q506 (KTA 1273Y)
Bush	Videoplus	Modulator setting	hold the "VCR on" button in on the machine (not the hanset) until chanel 36 appears in the display. Change to req freq.
Crown	CRV97	Dead aft thunderstorm & Power cut	1µ cap in psu pri
Crown	CRV97	Drum runs slow/hunts & poor ffwd/rew	X501 16Mhx Xtal faulty
Crown	CV93V	Int eject	Mode sw/loading belt
Daewoo	CP420	Dead	STR5707 & R817 0R33 & C835 2n2?
Daewoo	DVF242P	Dead	C53 1µ 100v C63 22µ 50v inside psu can
Daewoo	DVF24P	Load gears out of time - slip out again when reset	held in place by a triangular plate and only one screw adding another small screw to the tack-up side of the plate provided a permanent cure
Daewoo	DVF502	Int deck shutdown	Check loading belt
Daewoo	DVF522	no e-e sound	BA7790LS IC201 had i/p at pin 16 but no o/p at pin 21 - chip u/s
Daewoo	DVF522P	Dead	C53 1µ 100v in Sony SOPS PSU can
Daewoo	DVF522P	Dead	C53? 1µ 100v on pri psu
Daewoo	DVF932	St/by only - "PWR" flashes when attempt to turn on	Q815 2SC3205 o/c in front of psu can - check other tr & caps in psu
Daewoo	DVF932P	Int ejects tape as soon as inserted, no E-E & display incomplete	C23 470µ 10v in 6v supply

Daewoo	DVF932P	Shuts down when cassette inserted or function selected	6v line from psu slightly low - 470µ 16v decoupler
Daewoo	DVK229P Q252P	Accepts a tape, mechs moves then "err" in display	Mode switch
Daewoo	DVK884D	Dead - psu overheats	Replace C13/21/23/24/25/26
Daewoo	DVK985P	dead but power supply pulsing	D820 across output of 12.4v line s/c as faulty elects capacitors in the can had allowed o/p voltages to increase.
Daewoo	DVK985P	no capstan	check D504 s/c, dry joints capst motor conn & IC502
Daewoo	DVK985P	No r/c & tape damage on eject - display dims	C23 1000µ 16v in psu
Daewoo	DVK985P	Won't accept tape unless done by hand	Once loaded all functs ok until unloading - master cam had rough grooves underneath
Daewoo	DV-K985P	No sigs aft power cut (osg search present)	C23 1000µ 10v in psu
Daewoo	DVK985PI	Dead	C23 1000µ in psu but still faulty after replacement - C823, C816, C825 & C826 also faulty
Daewoo	DVK985PI	Int various inc patterning, int shut down & servo faults	1000µ 16v on psu sec also elects in psu pri
Daewoo	DVR7372	Mechs jams	Broken plastic wall on underside main drive cam - item 6-7
Daewoo	DVR7372P	Dirty heads symptom - & slurred sound	Pinch roller no fully contacting - mode sw
Daewoo	DVR7372P	Int won't eject tape	Idler gear on rh side of housing faulty but had to replace cpt housing as part not availble on its own
Daewoo	DVR7372P	plays in LP mode regardless	IC502 CTL pulse amp chip
Daewoo	DVR7372P	Won't operate or eject if left overnight	Capst belt slipping
Daewoo	DVT1428P	Chews tape - drum int start up when tape inserted	Clean mode sw, resolder conns to drum motor & bend cass holder base up to prevent it catching on idler
Daewoo	DVT1482P	Goes to st/by when play selected	Strip & clean mode sw
Daewoo	DVT1485P	Int tape looping on eject	Dirty mode sw under loading block
Daewoo	DVT2082P	Tracking slow to lock	R817 1R 2W gone high (it is located on the TV section board in +14V supply)
Daewoo	GB147FT1 CP420	Col drops out briefly every few secs on its own recs - ok on pre-recs	remove diode DY01 which is connected to pin 65 of the big SMD chip IY01 LA71511M. (Switching between PAL & MESECAM
Daewoo	GB21F1T2	Col break up on rec - ok on pback	remove DY01 - vcr is going into secam mode (deawoo technical)
Daewoo	GB2898ST	St/by only	C815 1000µ 25v o/c
Daewoo	GB5582TXT	Dead	No o/p from IN01 7806 reg - faulty
Daewoo	P24F	Poor rew aft replacing load belt & resetting timing	Check front locating lugs on carriage are at rt angles & not slightly bent
Daewoo	V200	dead	replace caps in psu can (Sony Manufacture)
Daewoo	V200	Dead	1µ 100v cap on psu pri & 2 x 22µ 63v on sec
Daewoo	V200	Dead	C53 1µ 100v in Sony psu can
Daewoo	V200	No display - the -24v supply missing	R62 18R 1/4w o/c
Daewoo	V200	No e-e - unable to tune tv to vcr	No 12v supply - D654 13v zener leaky

Daewoo	V21	Accepts tape but ejects when play attempted	No e-e or test sig - C869 10n s/c connected to b Q863 (AT 5.8v)
Daewoo	V21	No drum rotation	Lower drum ass'y replaced
Daewoo	V21	no RF, capstan or drum	Q861 o/c
Daewoo	V215	Accepts tape then shuts down	replace C869 10n(was reading 3k).
Daewoo	V215	No erase of previous soundtrack	Q201 osc s/c, R200 burnt & replace C204
Daewoo	V22	No mech functs - no/poor capstan	DJs on Q853, replace C852/3/4/6/9 all 47uf 25V and C851 47uf 50V
Daewoo	V2235	Rewind noisy & snatchy	worn brake pad on take up side
Daewoo	V225	dead	C53 1µ100v (chopper tr base coupling cap)
Daewoo	V225	Int. will only play for 10sec (with no picture only black screen) no E-E no blue mute , loads , ejects , Rew & FF ok.	Q856 (Sw 5v regulator) dry jointed
Daewoo	V235	Dead - no psu details in serv man	If PSU module is Sony check C35 1µ 100v on pri side
Daewoo	V235	Dead - usually after mains interruption	C53 1µ 100v or R51/52 390k
Daewoo	V235	Int Ffwd/Rew	Main rotary cam gear SEME pt no VDC7448
Daewoo	V31	No pback col - rec col ok	C409 0µ022 sm cap leaky
Daewoo	V325	Int no mechs or outputs - clock ok	Dry joint Q856 - on/off 5v sw line
Daewoo	V435	Col int or absent in Record	C402 0µ022 sm at pin 15 IC301
Daewoo	V435	Cuts out when cassette inserted with no display & various int faults	C822 330µ 10v change to 1000µ 10v
Daewoo	V435	Dead - no display	C822 330µ 10v, C824 100µ 10v
Daewoo	V435	int col in rec - OK in e-e & pback	C402 0.022µ record chroma signal coupling cap
Daewoo	V435	int lace up - loads then shuts down	C822 33µ in psu
Daewoo	V435	No display or long time to illuminate	C822 330µ 10v in psu - replace with 1000µ
Daewoo	V435	Pback pic all lines & no col	Xtal X402 in vid cct
Daewoo	V50	Dead	C53 1µ 100v on psu sub pcb
Daewoo	V50	Dead	C53 1µ 100v, C66 33µ 6.3v, C63 & C65 22µ 50v in psu & check for dry joints in psu
Daewoo	V50	Int reverts to st/by	Dry joints psu
Daewoo	V50	No display	C66 33µ 6v3, C63 & C65 22µ 50v on daughter board
Daewoo	V50	wont accept tape	out of alignment due to dirty mode sw
Daewoo	V50	wont accept tape	D62 14v rect o/c - provides supply for loading chip IC602
Daewoo	V60	Erratic functs & ejects with slack tape	Check mode sw & load belt
Daewoo	V60	No start up	C53 1µ - R51 & 52 390k hi res
Daewoo	V60	Off No Functions No Display	1uF 100V psu pri; 2 off 22uF 50Vcaps in psu sec
Daewoo	V60	Tape loops on eject & tries to reload	Mode sw
Daewoo	V60	Tuning drift	D851 KA33V (must use correct type)
Daewoo	VQ250PF	Noise bars on Pback	Pinch roller

Ferguson	3V30	Head drum runs at full speed backwards	Check plug & Socket connections to the MDA (Motor Drive Amplifier) panel and print continuity itself around Q216 (transistor runs quite hot)
Ferguson	3V31	Int playback, record, & E-E colour	Crystal X401 4.43Mhz Dry joint
Ferguson	3V31	white horiz flecks in pback	loose video head rotary transformer - can be glued back with care
Ferguson	3V32	Poor recs - produces dashes - ok on other m/c	Rotary tfmr upper winding parted from ferrite former - refit with superglue in lower drum ass'y
Ferguson	3V32	St/by only	Q22 on mecha board s/c
Ferguson	3V35	Head runs backwards extremely fast	D408 5v1 zener sc
Ferguson	3V35	No PB colour .	R437 (22k preset) OC (set VXO) .
Ferguson	3V35	TIMER WON'T SET UP TIMER LIGHT ALWAYS FLASHING	D10 OC MAKING PIN 21 OF MICRO RISE FROM 4.8v TO 8.5v
Ferguson	3V36	Will not accept cassette	Check whether the supply spool rotates for a few secs if it does check CP1 for O/C if ok check voltage at pin 37 IC201: this should be in low state without tape inserted: if it is not in low state check up/down detector switches
Ferguson	3V39	No mech functions	CP1 on bottom pcb o/c (middle rear of m/c)
Ferguson	3V43	Fails to read reel tacho pulses	D428 (IN4148) leaky TU FG pulses low at pin 41 of IC202 its on a sub board
Ferguson	3V44	Loss of colour	BP301 filter poor internal contacts
Ferguson	3V44	No erasure of prev rec sound	Q2 2SC124 bias osc o/c - used BC547 in lieu also check conns to erase head
Ferguson	3V53	Tape slows down too much before end of tape in Rew	Q1 on deck terminal board (TU reel tach amp)
Ferguson	3V55	No display & perm rewind with hum bar e-e	Check Fuse 2 2A o/c
Ferguson	3V56	confused micro - no mech control	check 12v to loading cam optos. If absent check prot F10 at rear centre of top pcb
Ferguson	3V56	perm or int dead	C24, 25, 35 in primary of psu
Ferguson	3V57	Frequent tape damage	Q604 going o/c Int
Ferguson	3V57	No capst lock in Pback	C405 dry joint (by IC401)
Ferguson	3V59	low dist e-e sound	C15 2µ2 50v on small audio pcb
Ferguson	3V65	Dead - no display	STK5481 chip
Ferguson	3V65	Display has too many segments lit	Display driver IC
Ferguson	3V65	No E-E, plays for a few secs then unloads	STK5481 chip
Ferguson	C3615U Combi	Switches off aft 10 secs with tape jammed	RW002 1R 1w safety res on deck pcb - also check fuse link FW003 (behind on/off sw near white ribbon conn)
Ferguson	C3615UT	St/by aft 2 secs	RW002 1R fusible next to multiway cable o/c
Ferguson	C3615UT	Won't accept tape - ok if loaded manually	RW002 1R safety res on VCR PCB o/c
FERGUSON	F14VB12A	BLUE MUTE ON TRICK FUNCTIONS	THIS IS NORMAL ON THIS MODEL CONTRARY TO INSTRUCTION BOOK
Ferguson	F14VB12A	No sound on rec - otherwise ok	IS001 switching IC BA7795LS. located under tape mech
FERGUSON	F14VB12A	STUCK IN STANDBY TAPE JAMMED	CHECK FP90 IN POWER SUPPLY HRS*ICFN25
Ferguson	FV10	Sound low & dist in E-E & Pback	C2 & C3 in modulator

Ferguson	FV100	Noise bars on pic & whirr on sound in play	Pinch roller had come apart & catching on housing
Ferguson	FV105	cassette housing failure	cam follower peg snapped off (under mode motor gear ass'y) Pt No Lever Cam 70363446A
Ferguson	FV10B	Dead - int blows mains fuse	Resolder dry joints on IC801
Ferguson	FV10B	Dead - no display	R1 10R 1/2w in psu o/c
Ferguson	FV10B	Jerky capstan int on play & Rec	Capstan motor faulty
Ferguson	FV10B	Wont accept tape - no drum -shows "cass in" symbol	STK5481 chip
Ferguson	FV11	Display pulses rapidly	C1 100µ 63v; C5 47µ 63v (on main psu); C6/9/11 10µ 25v all esr >100
Ferguson	FV11	Drum runs slow	replace IC VC2023A
Ferguson	FV11	E -E ok Playback Sound ok but no picture just blank raster	E -E 5V line always 5V Q503 DTC144W U/S
Ferguson	FV11	No capstan lock	C24/25 4µ7 25v
Ferguson	FV11	No chan memorise when switched off	Back up battery on front panel
Ferguson	FV11	No mechs	No 5 or 12v o/p from STK5481 - chip u/s
Ferguson	FV11	No reel motor op	Q605 2SC2560
Ferguson	FV11	Patterning - Herringbone on Pback - e-e ok	C9 10µ 50v on Tuner/IF pcb (decouples 5v supply)
Ferguson	FV11	Patterning in playback esp when heated	OK with the bottom removed! - IC1 5v reg near tuner
Ferguson	FV11R	Display flickers	Replaced following hi esr caps:- C1 100µ 63v, C5 47µ 63v (both on tfmr pcb); C12 100µ 16v, C13 47µ 16c, C11 10µ 25v, C14 100µ 16v, C10 47µ 25v. C6 10µ 50v, C9 10µ 50v
Ferguson	FV11R	No capstan lock	C24 & C25 4µ7 25v on servo pcb
Ferguson	FV11R	No diplay - ok otherwise	R4 (220ohm) O/C
Ferguson	FV11R	No tuning memory	Varta 2.4v battery on front pcb
Ferguson	FV11R	Poor pback - looks like worn heads	5v reg faulty
Ferguson	FV11R	Powers up but no pback	STK5481 chip
Ferguson	FV11R	Won't accept tape - screeching noise	Mode sw earth screw loose
Ferguson	FV12	E-E/Pback jumping & dist	Change 7 electrolytics near IC101- C123, C124, C130,C133, C134, C135, C137.
Ferguson	FV12L	Laces up then stops - no capstan	IC604 M54644BL drive chip
Ferguson	FV12L	records in B & W only	BPF302 filter o/c - vid feed to dec chip
Ferguson	FV14	Int stops with no capstan or drum op	Dry joints pin 6 IC601 on mecha board - brown glue nearby
Ferguson	FV14T	No sound e-e or pback on hifi sound posn	Caused by brown gunge on FMA board
Ferguson	FV20	Fails to load cassette	Right hand IR sensor o/c
Ferguson	FV20	Jammed tape & screeching mechs	syscon micro faulty - expensive! - robbed from scrap machine
Ferguson	FV20	Loading motor screams at sw on & sw off	Loading belt slipping - replaced
Ferguson	FV20	WON'T LOAD TAPES	RH DECK END SENSOR OC
Ferguson	FV200LV	Dead after storm	DP056 BAV20 s/c in psu

Ferguson	FV201LV	Head drum jerks instead of rotating - int	Tach det GT001 dry joints
Ferguson	FV205	Clock keeps getting corrupted	After entering eeprom code several times eeprom replaced and new code 7709-0119-200109-3400 was enetered after holding down + & - keys on vcr whilst applying mains
Ferguson	FV205	Dead aft power cut	CP008 100µ 25v in psu
Ferguson	FV205	No E-E sound	MSP3410 (IN001) on the Terminal board. This IC is over £50
Ferguson	FV205	No modulator o/p	This model does not have a modulator!
Ferguson	FV205HV	Dead	CP07 & CP08
Ferguson	FV207	No RF Output	Normal on this model - no modulator
Ferguson	FV20B	Int dead	STK5481 chip
Ferguson	FV21R	No e-e, play - cass in lamp perm lit	STK5481 chip
Ferguson	FV21R	Won't accept cassette - if loaded manually plays ok	loose conns carriage motor
Ferguson	FV22L	No rec sound - pback & e-e sound normal	Replace ACE head (even tho PB sound ok)
Ferguson	FV22L	Slack tape on eject	Take up main brake worn, replaced & brake sub ass'y
Ferguson	FV26D	Hum on E-E and playback. Picture and sound on playback obliterated by black and white hum bars.	Replace C3 (4,700uF 16V) in power supply. Its ESR had risen from 0.2 to 15.
Ferguson	FV26D	Int black raster on e-e & pback - sound ok	Dry joins sm caps on daughter pcb near scart
Ferguson	FV26D	Int col on pback & int col striations	C20/23 10µ 16v on head amp pcb
Ferguson	FV26D	No FFwd or Rew	Lock lever (Item 63A) stuck
Ferguson	FV26D	No R/W, Ffwd, Take up & leaves loop of tape on eject	Gooey substance on idler - possibly from tension band
Ferguson	FV26D	Wont accept tape - jams 1/2 way in	Leaf springs on top that tension cassette weak - retensioned
Ferguson	FV30	Buzz on sound disappears when top panel raised	Fit Modified audio lead Pt No 10265000
Ferguson	FV301	Winds tape to end & won't accept keyboard commands when sw on	End sensor pull up resistor dry joint
Ferguson	FV305HV	Int stopping & sw off	Reel sensors
Ferguson	FV305HV	Not accepting tapes	Cam lever K470 (4000 series chassis)
Ferguson	FV305HV	Sw to st/by in rec int	Reel sensors on main board Circuit Ref GT003 GT004. Part no 10137670.
Ferguson	FV305HV	Wow on sound & random mistraking with noises from psu	CP010 47µ 385v in psu o/c
Ferguson	FV305V	Poor pic search, int shuts down in load/unload or complete shut down	RP027 5k6 hi res in psu pri
Ferguson	FV30B	Int off - tape remains laced	Check opto coupler & mode sw
Ferguson	FV31R	Completely dead No clock display Check on/off monitor	Check RK44 (1ohm) on timer display board
Ferguson	FV31R	No erase	T501 BC337-40 bias osc u/s, replacement got hot - C506 33n faulty (measured ok)

Ferguson	FV31R	No rec sound	TS01 BC337 - 40 and CS 02 10 nF
Ferguson	FV31R	Wow on sound - supply reel brake not releasing fully	Arm toothed rack (item 40) jumps out of sync with load motor gear. Repositioned with aid of hot air gun
Ferguson	FV32B	No play & stops in ffwd/Rew aft 3 secs - loads 1/4 way then sw off	No drum pulses at TP BK02 (next to µ) - C6 47µ on drum motor pcb faulty
Ferguson	FV32B	Random segments lit in display	front micro faulty
Ferguson	FV32L	No display	DP50 s/c near front rh corner of main pcb
Ferguson	FV32L	Partially loads then cuts out - pressing play again will cause it to partially unload	Missing pg pulses from head motor coupled by 3µ3 sm caps faulty
Ferguson	FV32L	Various inc clock needs resetting	Check back up battery
Ferguson	FV33	Dead	C14 in PSU
Ferguson	FV33H	Dead	IC1 STR10006 s/c, D25 39v zener s/c & check R9
Ferguson	FV37H	Pback sound low - Hi-fi meters not working	Cct Prot L2 on hi-fi pcb
Ferguson	FV37H	Squeal in Play	Slant pole loose - fix with Loctite
Ferguson	FV37H	Tuning mode can be set , channel No's appear correctly but channels could not be tuned in .	Q2 O/C runs very hot
Ferguson	FV39S	No operation	CP2 o/c - caused by faulty capstan motor
Ferguson	FV40 series	Mechs jammed - out of alighnment	When realigned no rew or rev search - locking washer missing off sliding part of mechs
Ferguson	FV40 series	Poor pback pic/tracking & bottom 1/2 snow only	Lower drum wear - replaced
Ferguson	FV401	Dist sound on rec - pback ok	6Mhz Xtal unstable
Ferguson	FV401	Service mode entering	hold - prog + - keys and apply power; eeprom values - 25 01 89 00 B1 91 03 12
Ferguson	FV405	Adj RF modulator	Plug in aerial and scart lead, switch machine on. Press & hold the menu button, you will see please wait flash on the TV screen, and the VCR hunts for a spare frequency & sets itself on that. Once it has settled, if you wish, you can change the frequency using the + and - buttons.
Ferguson	FV405	Int stops in Play	Resolder joints on TU Reel sensor (looked ok)
Ferguson	FV405HV	Dead with BUZ91 chopper tr overheating	Replace 180k resistors between pin 8 chopper trfmr & CP011, RP04-9 & 2 x ZPD10 10v zeners in series with PD020 & DP044
Ferguson	FV405HV	No eject	Replace cam casting
Ferguson	FV405HV	No or noisy rew - jerky	Replace LH spool carrier
Ferguson	FV405HV	Tape stuck - mech keeps shutting down	Loading IC IT002 s/c pins 6 & 7
Ferguson	FV405HV	Will not accept or eject cassette	Traced to broken pip on CAM LEVER CASTING part No 70031477 (Wiltsgrove order code SPV-7005) £3.98 + VAT
Ferguson	FV41	No deck functs or clock	U2559B IC

Ferguson	FV41R	No functs or motor 12v from psu	Vcc for IT01 low at 4.4v (5v) - replace IT46 U2559B & IT01 MC6801U4 or ZC93190P
Ferguson	FV41R	Severe pulling on e-e & no pback pic	Video ok at pin 27 BA7258AS vid proc chip but nothing at pin 24. FN54 low pass filter SEL4230 u/s
Ferguson	FV42L	No op, display or mechs	TT64 BD435 & TT71 BD676 dry joints in servo sect of servo/sigs panel
Ferguson	FV42L	Snowy picture on E-E and playback.	TW41,[BC327-40] O/C
Ferguson	FV43	Loading pole adrift	Brass collar had dropped off underneath - possible to refit
Ferguson	FV43H	Goes to st/by in FFWD/REW - ok in other functs	RP83 (120ohms) in the capstan motor control circuit.
Ferguson	FV44	To remove childlock	Hold 'power' button for a few secs
Ferguson	FV44L	Capstan runs too fast	Motor faulty - no FG pulses from it
Ferguson	FV44L	Display very dim	Replace C28 120µ 6.3v, C29 100µ 6.3v in + & - 3.8v supply
Ferguson	FV46T	Int jams during pback, search etc	Mode sw
Ferguson	FV46T	Tape In ind on when no tape in	Mode sw
Ferguson	FV46T	Timing out - resetting causes loading arms to jam	Tooth broken on TU/Supply arm ass'y
Ferguson	FV50	No r/c functs	U2505 chip on timer pcb
Ferguson	FV506V V1374UR	Time not holding correctly - EEPROM corrupt - to reset -	Dis mains. Hold Ch+ & Ch- whilst plugging in mains. Check 14 digit no. 2501129A0402B0. NB head sw point & tuning will need resetting. Press OK to store. Note no. varies with model so check manual.
Ferguson	FV51R	Loop thro' only - no display or mechs	Dry joints on big chip rh side of main pcb & power trs in same area
Ferguson	FV61	Dead apart from pulsing loading motor	No volts pin 1(13.6v), 2 (21.8v) & pin 3 (5.9v) high at 20v of BP03 - IT25 U2559BFP small IC on servo pcb u/s
Ferguson	FV61	INT LOADING OR NO LOADING OR STUTTERS WHEN UNLOADING	LOADING MOTOR INT SC SHOULD READ 13.5R FAULTY ONES 10R OR SC MAY DAMAGE IT60 DRIVE IC
Ferguson	FV61	Lower Drum racing	check for dust on sensor cage at bottom of motor
Ferguson	FV61	mains fuse o/c & chopper tr TP08 s/c	even after psu repair kit fitted still dead & blew chopper again. CP10 10µ, DP15 3v9 zener leaky
Ferguson	FV61	No loading due to load motor	IT60 load chip faulty - caused by motor itself - Motor windings should read 12/13R if OK
Ferguson	FV61	To adj modulator	hold tape control button on r/c for 7 secs then adj displayed chan no with +/- keys. To store press STOP
Ferguson	FV61	To unlock without PIN No	s/c pins 3 & 19 of IC in r/c & press "2" at same time
Ferguson	FV61/2	Modulator adj	hold the tape control button on the remote control for approx 7 seconds the display on the front changes to the channel no adjust with + and - then to store press stop

Ferguson	FV61/2	Setting up security mode	Press main Menu button. Press & hold the "9" button in for 8 secs. The " Ferguson Security Mode" menu should then appear with on screen instructions. Enter new PIN number or press Erase 0000 button to deactivate; Press Memory
Ferguson	FV61/2	To unlock machine without pin no.	Short pins 3 and 19 of the i.c. in the hand unit, at the same time press button 2 with your third hand!!! Remember the i.c. is "upside down as you look in the hand unit"
Ferguson	FV61/62	Mechs int locks up with "Lock" in display	Would unlace but not eject until power was restored - faulty loading motor
Ferguson	FV61LV	BUZZING NOISE FROM MECH	REMOVE + CLEAN CAPSTAN MOTOR
Ferguson	FV61LV	Dead apart from shuffle when powered	RP86 27R o/c; replacement overheats - volts high -TP01 BC858 leaky
Ferguson	FV61LV	Int shutdown in play/rec - drum slows first	Resolder BT02 on lower pcb
Ferguson	FV61LV	RF adjust	Press Green or B on r/c for 8 secs. Display now shows chan no.; press "+" to select new chan & Exit or "E" to store. Use tracking + or - to fine tune whilst in RF mode.
Ferguson	FV61V	dead	all psu o/ps 30% only. TP91 2SA1020 in psu dry joints
Ferguson	FV62	E-E pic still present in Play	Clean dust from under drum
Ferguson	FV62L	dead	TP91 2SA1020 s/c
Ferguson	FV62L	Dead - mains fuse blown - chopper tr s/c	Fit psu kit but still no display or functs. No -25v psu o/p pin 1 skt BP02. DP51 o/c
Ferguson	FV62L	No display or response from front controls	RP86 27R fusible o/c
Ferguson	FV62LV	Daed	CP05/6/7 1µ 50v, CP10 10µ 50v, TP91 2SA1020 & RP91 1R5
Ferguson	FV62LV	Dead 1A fuse blown	Fit PSU repair kit - TP08, TP91, CP10, CP06, CP92, DP06, FP01, RP86, TP07 in addition DP15 3v9 zener s/c, CP72 100µ 50v hi esr, RP91 1R5 1/4w safety res
Ferguson	FV62LV	FF & REW slows to stop	low capstan torque - RP83 120R under PSU cracked
Ferguson	FV62LV	Mechs jammed - load poles laced but cass housing in eject posn	Shaft ass'y cass 20067SC split
Ferguson	FV62LV	No UHF o/p at Ch68 - drifting at Ch36	33v supply low at 12v due to sm link in feed cracked
Ferguson	FV62LV	pback pic moved side to side - better when slowed with finger	dust on photosensor panel of head motor
Ferguson	FV62LV	tape loads but no play & blank raster, no eject	CODE displayed - needs security code entering
Ferguson	FV62LV	Won't accept tape, load motor runs cont	Loading drive gear/worm ass'y Item B550 - (plastic gear ass'y on lh side of deck split)
Ferguson	FV67HV	At power on head drum briefly spins then dead - no display	CP26 1µ 50v; CP28 47µ 50v; CP71 47µ 50v; CP90 10µ, CP53 220µ 50v
Ferguson	FV67HV	Dead	IT25 U2559B - check by replacement
Ferguson	FV67HV	Dead	CP11 220µ 25v in PSU hi esr

Ferguson	FV67HV	Dead aft power surge	Fit repair kit & replace all caps on pri side of psu
Ferguson	FV67HV	DEAD POWER SUPPLY OK 5v ON TT26 COLLECTOR BUT NOTHING ON BASE	IT25 U2559B US
Ferguson	FV67HV	Dead with no clock display All PSU outputs OK	Check TT26 for Always 5V if missing suspect IT25
Ferguson	FV67HV	Loading / unloading slow	Suspect motor should load with 6V supply
Ferguson	FV67HV	Loading arms jammed - pinch roller not moving	Pinch roller locking lever not engaged with main cam
Ferguson	FV67HV	Loading starts with clunking, arms stick & shuts down	Control cam damaged teeth
Ferguson	FV67HV	Mono sound only on pback	Adj lead out guide very slightly
Ferguson	FV67HV	no sound in any mode	MSP2400-C48 Nicam decoder chip defective (expensive)
FERGUSON	FV67HV	No sound on E-E or PB Slight whistle	Replace IL01 BA7708K1 on audio panel
Ferguson	FV67HV	Rewind poor	Capstan pulley split
Ferguson	FV67HV	Setting up head switching	Press "Timer" & "+" keys together then press" PLAY" after a few secs
Ferguson	FV67HV	To adj Rf o/p	Press & hold green button for 10 secs. Display shows"HF CH60" eg. Alter chan with "+" button. Store with "Stop" button, adj range ch51-66
Ferguson	FV67HV	Unstable sound	Capstan motor faulty
Ferguson	FV67HV	Wont accept tape - int	load motor faulty
Ferguson	FV67LV	Dead, no display or functs	CP11 220u, CP26 1u & CP35 100U
Ferguson	FV70B	Dead	RP71 10R fusible in psu
Ferguson	FV70B	Dead aft power cut	RP18 1R5 o/c, CP07 10µ 50v, CP08 100µ 25v changed as precaution, TP01 TEO2537F leaky, IP01 U4614B chopper chip, RP21 2k2 o/c, RP51 10R o/c, IP02 LM393 faulty
Ferguson	FV70B	Dim or no display	CP71 100µ 50v on print side of pcb
Ferguson	FV70B	Trips for 10 mins from mains sw on	CP81 1200µ 16v
FERGUSON	FV71	DEAD	REPLACE CP07 AND CP08 10MFD AND 100MFD
Ferguson	FV71	Dead	TP01 leaky, RP18 1R5 & RP21 2k2 o/c in psu. Fit R3000 psu repair kit
Ferguson	FV71	Dim display	CP41 220µ
Ferguson	FV71	PSU trips	CP06 4n7
Ferguson	FV71	Spotty pback with black spikes	CP41 220µ
Ferguson	FV71 FV72 FV74	Intermittent Blue background of the OSD full page menu	Failure of QA11 Crystal Carry out modification W/shop
Ferguson	FV71LV	Dead	Usually all semiconductors in PSU
Ferguson	FV71LV	Dead - no display	Check caps in psu - CP007 100µ 25v, CP008 10µ 50v, CP81 1200pf 16v, CP82 1000µ 16v
Ferguson	FV71LV	Dead aft mains removal	Change CP07 (10uF/50V), CP08 (100uF/25V) and CP71 (10uF/50V) on solder side.
Ferguson	FV71LV	Int take up during play & int tape eject	Mode sensor (optocoupler) faulty - no mode sw on this vcr

Ferguson	FV71LV	Patterning on E-E	Cap 10u 50v mounted on print side of psu can
Ferguson	FV71LV	Poor start up, play , int goes to rewind etc	DP06 BYV10-20 leaky - check psu caps & check correct screws are replaced (not too long to s/c print)
Ferguson	FV71V	dead no display - psu pulsing	CP41 220µ 10v & 10µ 50v adjacent to it
FERGUSON	FV72	DEAD	REPLACE CP71 10MFD50V
FERGUSON	FV72	DEAD	CHECK DP61/62 BOTH BA157 FOR S/C
Ferguson	FV72	No reel action - accepts tape but ejects it with loose tape everywhere	Pulley off capstan flywheel - superglued it back - accesibility difficult - remove deck
FERGUSON	FV72	NOT TUNING INTO HIGH CHANNEL NUMBERS	REPLACE RP71 O/C 10OHM
Ferguson	FV72LV	No mechs	no supply to load motor; D409 1N4001 o/c also check D408
Ferguson	FV72LV	No take up - damages tapes	Capst motor pulley split - not available separately
Ferguson	FV74	Dead	CP08 100µ 25v, CP07 10µ 50v, CP71? 10µv 50v (on print side) all hi esr
Ferguson	FV77	Dead	CP1 220µ also check IP01 UC3842
Ferguson	FV77	No display or operation	Replace CP07, CP08, CP41 & dry joints on front pcb
Ferguson	FV77	No sound aft 2 secs in e-e ; pback ok	IM50 (MSP2400) on the NICAM board.
Ferguson	FV77H	Sound absent in Pback & E-E	Switch Tr TX27 faulty
FERGUSON	FV77HV	DEAD	CHECK/ REPLACE CP11 220MFD25V, RP91 0.47 OHM AND CP60 100MFD10V
Ferguson	FV77HV	Dead	CP11 220µ 25v, CP19 22µ 63v & CP26 1µ 50v
Ferguson	FV77HV	Dead - PSU tripping & tape stuck inside	CP26 1uF 50V (fitted a 2.2uF 63V), CP28 47uF 50V (fitted a 100uF 50V), CP35 100uF 25V, CP51 1uF 50V (fitted a 2.2uF 63V), CP53 220uF 35V, CP71 47uF 50V (fitted a 100uF 50V)
Ferguson	FV77HV	Dead with faint noise from psu	CP11 220µ 50v, CP19 22µ 63v, CP26 1µ 50v, CP28 47µ 50v, CP35 100µ 25v in psu
FERGUSON	FV77HV	DEAD,POWER SUPPLY PULSING	REPLACE CP26 1MFD 63V ON POWER SUPPLY
FERGUSON	FV77HV	NO CLOCK DISPLAY	REPLACE CP41 220MFD63V
Ferguson	FV77HV	Rewind poor or inop	Check 13.6v pin 1 BP03 & 21.8v at pin 2. Also check 120R Resistors RP75, RP83, RP84 & RP85 for dry joints or o/c
Ferguson	FV77HV	Straining noise from mechs - ok on its side	Check for missing circlip on capstan motor
Ferguson	FV81	dead - ticking from psu	CP07 & CP08
Ferguson	FV81	no r/c operation	ok at receiver block but dissappeared at link JK01 - crack on link

Ferguson	FV81	RF Modulator adjust	If using standard RT10 control (The large one with the rounded bottom & TV/VCR slider switch which has a reset button & an A or B switch under the battery flap)- press & hold red Main Menu button for 10 seconds, SYS4 appears then wait till CH60 appears. The Auto install menu will also appear (It is easer to see this through the scart connection to a CTV) using the - and + buttons adjustments can be made to output. Don't forget to store new settings. Holding the Main Menu button or on the smaller remote MEM button again for 10 seconds will force a reset & the Channel output will then be reverted to CH60
Ferguson	FV81LV	Dead	PRIMARY-CP007 10UF 50V; CP008 100UF 16V; SECONDARY-CP041 220UF 35V; CP054 10UF 50V; CP071 47UF 50V; CP082 1000UF 16V
FERGUSON	FV81LV	INT CHEWING TAPES	REPLACE CAPSTAN MOTOR FERG20202980
Ferguson	FV81LV	Won't accept cassette	lever that actuates cass flap lock missing - WVE pt no 20081HC
Ferguson	FV82	no pback sound - e-e ok	TA7795LS audio ic
Ferguson	FV82	Various mech problems such as sw off aft rew, no turbo wind	Clean around pcb adjacent to micro - sus hi res leaks
Ferguson	FV82LV	e-e snowy - other modes ok	o/c print between tuner o/p & modulator i/p
Ferguson	FV91LV	Adj RF out	Press and hold MEM and VCR Output will be shown, Alter the frequency with the + And - buttons..... Or Holding the MEM or Menu button depending on the remote for 10 seconds will force a reset & the Channel Output will then be reverted to CH60
Ferguson	FV91LV	Display absent	CP041 220µ 10v in psu can
Ferguson	FV95HV	Tripping psu aft thunderstorm	CP007 10µ 50v, CP008 100µ 25v on psu pri
Ferguson	FV95V	won't accept tape - load motor runs continuously	cam lever broken also replace mode sw
Ferguson	FV97HV	No RF out	Due to no modulator fitted to this model!
Ferguson	FV98HVX	OSD int disappears	dry joints ribbon cable connectors to OSD board
Ferguson	FVB9	Dead	C53 1µ 100v o/c in psu (resolder psu first to gain access)
Ferguson	FVB9	Dead	C53 1µ 100v, C65 22µ 50v, C63 22µ 50v hi esr in enclosed psu
Ferguson	FVB9	Plays/Ffwd/Rew for 5 - 10secs only	Dry joint Q856 5v reg
Ferguson	FVB9	Tape loops on eject	mode sw
Ferguson	HR7350	RUNS FAST	C65 OC 10uF 16v
Ferguson	R4000	Tape slips down control head in rev search	Lateral play in capstan bearing - replace motor if available at low cost!
Ferguson	R4000 mech	Won't accept a tape	Replace broken rec prot sw
Ferguson	R5000	Head sw setting	When "PLAY E----" is displayed, press the "STATUS" button on R/C. Next press "+", "-" & "PLAY" together on VCR, ("STOP", "STANDBY" and "PLAY" on some models). "ADJ will appear on the display after a few secs. Press "PLAY" on the VCR. To exit, switch the power off

Ferguson	TX92	low sound with background hiss aft storm	micro needs setting up after standard changed to wrong system
Fidelity	VCR1600F	Chews tapes	Gear centre assy has cracks which can be seen when flexed VDC7720 from SEME
Fidelity	VCR2020F	Won't accept tape & cass in symbol flashing	Dry joints supply end sensor
Fidelity	VCR3000	Dead	Q1001 (2SC4204) s/c (Note PCB markings WRONG!, Q1002 (2SC4517) s/c, R1014 (1ohm) o/c, R1002 (4.7ohm) o/c. caused by secondary D1009 S/cct.
Fidelity	VCR4000	No take up	Capstan belt pulley adrift of flywheel - can be glued back on
Fidelity	VCR4000	Noisy ffwd/rew	Capstan motor us
Fidelity	VCR4000	Play goes fast int	Capstan motor
Finlux	VR163NX	Dead	Mains bridge cap 100µ 385v
Finlux	VR3724	Int no rew or FFwd	Cam slide ass'y Pt no 8681 4927
Fisher	FVHP530	Display goes off when operate pressed	Dry joint Q009 on LH side of case of vert heat sink
Fisher	FVHP615	No stop/eject when heated	BA6304 chip temp sensitive
Fisher	FVHP710	No Rewind	Rew button S585 gone hi res
Fisher	FVHP905	Cass In light perm lit	dry joints cass housing plug
Fisher	FVHP906	Dead - no 5v or 12v from psu chip	STK5461
Fisher	FVHP907	Accepts tape but no mechs	signal diode D504 on the input of the key decode A/D convertor BA6334 IC502 leaky
Funai	5843	Head speed too fast	Replace C2, 3 & 4 on head drum
Goldstar	D17 mechs	No Ffwd/Rew after initial speed start	replace worn master cam,not allowing brake lever to latch on Golstar 374-005A, Konig 11008
Goldstar	GHV1240I	E-E tuning varying in & out	Check C715 in IF unit or brown glue under coil connected to tuner units TU pin
Goldstar	GHV1240I	Won't accept tapes	Arm ass'y on RH side of housing had lost its spring due to broken lug - pt no 435-148R
Goldstar	GHV1244I	Goes straight into Rew when sw on	Timing (line up hole in main cam, sliding lever & chassis in stop)
Goldstar	GHV1246I	Goes into rew for 5 secs then off with "< >" flashing in display	Loading motor dead spot
Goldstar	GHV1246I	Wont accept tape	spring post broken on side of cass housing
Goldstar	GHV1290I	Beeps for no apparent reason	Dry joints on beeper
Goldstar	GHV1290I	Horrible patterning & hum bar on play and record .	C118 100uF 16v (47uF fitted in machine) C122 47uF 63v
Goldstar	GHV1290I	hum bar on e-e & patt on pback & rec	Check caps C118, 112, 108, 107, 155, 120, 122 all 47µ, C121 & 123 100µ
Goldstar	GHV1290I	Hum Bars on pic	C712 in IF module
Goldstar	GHV1290I	Int slow Ffwd/Rew & display dims & goes out	5v at syscon & digitron chip goes low to 3 - 4v.(OK at PSU o/p) - high res print between pin 11 P5101 (reg 6v0) & C502 - caused by glue
Goldstar	GHV1290I	Load arms don't move	Inner sect broken allowing gear rack to free-wheel
Goldstar	GHV1296I	Goes out of time with graunching noises every few times Play is selected	Replace Load/Mode Ass'y £8.15 23128 from CHS - split pulley on motor

Goldstar	GHV1296I	mech jammed	dried grease in cam & on back tension lever
Goldstar	GHV1296I	No rewind	idler arm bent & catching on deck replace or bend straight
Goldstar	GHV4400P	Poor pback similar to tracking out	Disconnecting the lower drum foil brought the pin voltages back correctly.
Goldstar	GHV94001	If E-E sound low	Remove R460 and fit a wire link in it's place
Goldstar	GSE1290	INT PICTURE CUTS OUT OR ROLLS	MODE SWITCH AFFECTS BACK TENSION
Goldstar	GSE1290	MACHINE CONFUSED!!	SHORT OUT MEMORY CAPACITOR
Goldstar	GSE1290	NO E-E	Q701 OC
Goldstar	GSE1290	WON'T TAKE TAPES IN DISPLAY SHOWS TWO TRIANGLES	D521 OC REPLACE WITH LINK
Goldstar	GSE1290 GHV7430I (Mech D-09)	INT ROLLING OR POOR PICTURE AFTER GOING INTO SEARCH OR POOR RECORDINGS , INT Hi-Fi AUDIO .	NO BACK TENSION AS BACK TENSION LEVER HELD OFF. MODE SWITCH REQUIRES CLEANING
Goldstar	GSE1290IQ	Unit will not accept or eject tape	Remove diode D521 and fit link in it's place
Goldstar	GSE1293IQ	Int slack tape on eject	cleaned mode sw
Goldstar	GSE1891I	Hum bar on e-e & pback	C112/113/106/108 47µ 25v all hi esr
Goldstar	GSE1891I	noise & hum bar on pback affecting capstan	change 47µ caps in psu
Goldstar	GSEQ20	No audio	Q405 / ZD401
Goldstar	GSEQ20	No line sw in pback	Q403 / Q404
Goldstar	GSEQ20	No rec sound or erase prev soundtrack	Change IC401 BA7790LS, Q401 KTC3205, Q402 KTC3199GR, reset osc to 70khz
Goldstar	GSEQ20	poor audio o/p	L401
Goldstar	GSEQ20	rec signal erased in pback	Q402
Goldstar	GSEQ2031	No functs & capst turns slowly	C307 220µ & Q104 2SA1273 reg leaky (used BC640 in lieu)
Goldstar	GSEQ210 D17	Tape damage on eject	Pinch gear & TU lever faulty
Goldstar	N3091	F107 int fails - no mechs	Loading motor faulty
Goldstar	P131	Dead	Check or replace CP19 (1000mfd 10v), CP22 (470mfd 25v) and CP25 (100mfd 16v)
Goldstar	P131	Dim display	CP25 100µ
Goldstar	P131 P134I P234I T163I T263I	E-E PICTURE STAYS ON IN PLAYBACK .	W152 (2A 125v) HIGH RESISTANCE , REPLACE . Pt No 131-0966C
Goldstar	P131 P134I P234I T163I T263I	TAPE STOPS ON REWIND . TAPE DRUM SLOWS DOWN .	CUT LINK W126 , RUN JUMP WIRE FROM LH SIDE OF CUT LINK TO ANODE D513 , FIT IN4003 IN PLACE OF LINK W138 - ANODE TO CATHODE D512 , SHORT OUT L516 .
Goldstar	P1341	Dead - all o/ps from psu present	C19 1000µ 10v had dried up

Goldstar	P1341	Dim display - loads tape then sw off - won't sw back on unless mains reapplied	CP11 33µ 25v, CP25 100µ 10v hi esr
Goldstar	P1341	LOCK ON displayed when any funct selected	Switch off Child lock with handset
Goldstar	P13I	"0" in display - no other functs	CP19 1000µ 10v in psu
Goldstar	P13I	No erase of old sountrack	C406 47µ 16v also check C506 47µ & C19 1000µ in psu
Goldstar	P234i	Pic dissappears then returns when play selected	C19 1000µ 10v in psu
Goldstar	P234I D27 mech	No display	CP19 1000µ 10v, CP21 47µ 50v, CP25 100µ 10v
Goldstar	P234I D27 mech	Tape stuck - mech just shuffles -displays "Lock On"	Release child lock by pressing C Lock on hset
Goldstar	P23HP	ragged verts on pback & no sound	12v supply low at 3v due to ZD504 13V & Q506
Goldstar	P4341	Dead	CP19 1000µ 10v in psu
Goldstar	P4341	Display very dim	CP25 100µ 10v in psu
Goldstar	P5001	dead - no micro activity	cap across xtal was s/c to deck - repositioned
Goldstar	PW904i T163i	Display dim	C25 100µ 10v
Goldstar	Q4031	display overbright	33v zener ZD104
Goldstar	RC7031	Dark pic	C707 4µ7 50v on main pcb near P7003 connector in tuner sect
Goldstar	RC7031	Weak or no video in E-E & Rec esp when cold	C707 47µ 50v
Goldstar	RC7051	No e-e just blue screen & wont stop in search tune	C707 4µ7 50v con to pin 4 IC701 hi esr
Goldstar	RC7051	Poor E-E - Pback ok	C707 4µ7 50v on top panel (near centre)
Goldstar	RE703	No play	Final take up arm not operating correctly - kit RK205G from SEME
Goldstar	RF90I	Tripping with display pulsing .	CP10 1uF 50v in PSU .
Goldstar	RG20F/21F	Records black with random white lines for first half hour	C003 47µ 16v on head pre-amp
Goldstar	RQ121	No display & won't accept tape	No 5v at Micro IC505 - D508 o/c (centre/front of top pcb)
Goldstar	RQ191	Won't change chan manually/rec etc	Check 5.5v 0.047F memory battery on RH side of main pcb
Goldstar	RQ20	Capstan motor faulty	Check Hall Ics on diode range of meter - if one has higher reading than other then replace it from a scrap motor
Goldstar	RQ200F	No or int splashes of col	6v reg
Goldstar	RQ201	No functs or display - heads int rotate	6v reg IC & change 47µ caps in psu
Goldstar	RQ2931	Dead no display	IC101 6v reg
Goldstar	RQ293I	No pback pic - symptoms of duff head - 1/2 FM env missing	Cap C203 50V 10uF on pin 7 of IC201 located on main PCB just above videohead

Goldstar	S12I	Tape stuck - guide arm base catching on cassette holder	Back tension arm lifting supply side guide post base, allowing it to catch on edge of cassette holder. No adjustment possible for slack guide post. No obvious warping of cassette holder. Twist cassette holder so that LHS is higher. The pin on the cassette holder LHS now does not reach the bottom of the cut-out of the side frame.
Goldstar	T161	Dead	CP19 1000µ 10v in psu - measured ok on esr meter
Goldstar	T161	Dead 6v o/p low at 5v	CP19 1000µ 10v in psu
Goldstar	T161	No Pback RF - ok via scart	CP19 1000µ 10v in psu
Goldstar	T1631	Pic stays on e-e in pback - sound ok	CP19 1000µ 10v in psu
Goldstar	T163I	Dead	DP05 (1SS131)s/c primary side of PSU.A 1N4148 is a suitable replacement.
Goldstar	T16I	Dead	Opto ICP02 & caps CP19, CP21 & CP25
Goldstar	T2631	Loads then display garbled & clicking from deck	RP09 22R hi res in psu
Goldstar	T2631	Low sound e-e & whine on sound during eject	ICP03 KIA431 in psu - used TL431CLP in lieu (all psu readings were high)
Goldstar	T2631	No functs - tape stuck	CP25 100µ 10v in psu
Goldstar	T263I	Int symptoms - dim display, shaky e-e, no play/eject, displays "8" only in display - then dead.	C25 a 100uf 10v, and C19 a 1000uf.
Goldstar	T263I	No operate when cold	CP11 33µ 25v, CP25 100µ 10v hi esr
Goldstar	T263I	No rew - makes graunching noise - ok in other modes	Locking washer slipped off intermediate rew gear allowing it to move up shaft and become unmeshed with idler - replace locking washer
Goldstar	TI61	dead no functs or clock	No activity in pri of psu - opto coupler ICP02
Goldstar	VN6000	int no mechs	5.8v line low - C822 33µ 25v also check C823 1000µ 10v
Goldstar	W201	"< >" displayed only	Not deck timing this time - no 12v supply to load motor; Q132 KSA709C faulty (checked ok out of cct)
Goodman	VN6000	Accepts tape but then ejects & shuts down with slack tape	Mode sw
Goodmans	3400	Can't change channels on machine , remote ok	IC702 memory IC
Goodmans	285NS	St/by only	C815 1000µ 25v o/c
Goodmans	Daewoo VP2500	Blue screen in E-E, No pic in pback - sound & menu ok	R350 270R sm res in vid proc cct
Goodmans	GTV2000	mechanism jammed, loading shaft loose and out of its bearings.	shaft lock assembly' item B142 had split and was loose on the shaft, allowing the shaft to slide through the loading pulley assembly and hence drop out of its slot in the loading block. This item was super glued back
Goodmans	GVR3000	removal of tight video head	screw 2 oversize bolts into the non tapped section of head until they protude over the tapped sect of the lower drum
Goodmans	GVR3400	Dirty head symptom (one head)	AN331YK in head amp module
Goodmans	GVR3400	Distorted pic on PB. REC/ PB ok on other VCR	Remove CA10 0.47mfd in the head amp can
Goodmans	GVR3400	poor playback	remove CA10 0µ47 16v cap on pin 7 of head amp

Goodmans	GVR3450	Chews tape - no Play/FFwd/Rew etc	Idler ass'y catching on bottom of cassette housing - bend straight or replace idler
Goodmans	GVR3450	Dead	R802 2R2
Goodmans	GVR3450	No functs or display	Crystal X701 4.19Mhz in Syscon faulty
Goodmans	GVR4000	Sound not recorded (prev sound remains) - bias osc inop	C419 47µ 16v hi esr in bias osc supply at back of main pcb
Goodmans	GVR5000	No playback video o/p	C4069 100nF sm leaky
Goodmans	GVR5000	Poor pback - heads worn symptom	C4073 100nF sm leaky
Goodmans	PD1700	No record - pback ok	Transistor 7605 BC848B
Goodmans	PD1700 Turbo	Dead & ticking	Load motor drive chip L2722
Goodmans	PD1700 VP2300 PD1750 VP2350	Strong sibilance in LP mode	Usually due to dry joint on R3615 Replace with (1K) resistor if necessary . Is connected to pin 15 of IC LA7282 position 7601
Goodmans	PX2400 TX1200	Tuning intermitt	Check 30v supply - if low change C803 100µ 50v
Goodmans	RC7051	Int col and capst speed in pback	Xtal X301 next to IC301 PAL/Secam chip dry jointed
Goodmans	SD1600	Dead	Z901 800mA fuse o/c
Goodmans	SD1600	Not fully loading play/record	Loading motor pulley split
Goodmans	SD1600	Tape stuck - no movement	Loading motor pulley drops off - superglue back on
Goodmans	SD1600	Wow/Flutter & pic disturbance	C802 47µ 16v in separate psu module
Goodmans	SD1800	CHILDLOCK	PRESS "STANDBY" AND "SYSTEM" TOGETHER
Goodmans	SD1800	To switch modulator on/off	Hold "System" button on r/c
Goodmans	SD7700	Int sound	Check/replace 6Mhz filters in IF can
Goodmans	TVC Combi	Ejects tape soon after insertion	Mode sw
Goodmans	TVC1400	Capstan & drum excess speed on pback - ok on rec	check NTSC sw is in correct posn!
Goodmans	TVC1400	DEAD	CHECK FOR DRY JOINTS ON C817
Goodmans	TVC1400	Int tape loading leaving tape looped	mode sw
Goodmans	TVC141 Daewoo CP420	Colour flickers on own recordings at 1 sec intervals, pre-recorded tapes Ok.	Unit cycles between PAL and MESECAM, to stop this cut the track between pin 65 of SMD IC IY01 LA71511M and diode DY01 1N4148.
Goodmans	TVC142C	No vid functs , chan change ok with "Emergency" displayed	Clean mode sw
Goodmans	TVC14P	Sluggish loading	R817 1R 1w fusible on main pvb high res [14v supply to vcr section had dropped to 1/2].
Goodmans	TVC14VP	INT NO AUDIO	CHECK/ REPLACE R618 1 OHM

Goodmans	TVC14VP	POOR PICTURE AND NOISY	CHECK R217 6.8K FOR HIGH VALUE
Goodmans	TVP5050IST	Stuck in pause	Slider supply gear F520 cracked pt no SAMSAC6680142A
Goodmans	TX1100	Mech functs int	Replace all electrolytics in psu
Goodmans	TX1100	Slow playback	Pin 1 P501 has ripple - C509 220µ 10v
Goodmans	TX1200	Int cuts out and goes dead	Crack between RD00 base and R808
Goodmans	TX3950	Int cuts out & goes dead	Q805 2SC2310 in PSU leaky
Goodmans	TX4000	Dead	Replace C53 1µ 100v in PSU can
Goodmans	TX4000	Dead - Sony made psu is faulty	Check elect caps & R21 & 22 39k ½w hi res or o/c
Goodmans	TX4000 Daewoo FM	Laces up then sw off as head stays static	mode sw
Goodmans	TX5000	No mechs apart from load/unload	mode sw
Goodmans	VCP650	Won't accept tapes - int	Supply side sensor 0v conn rises due to bad crimp conn between main & mecha pcb
GOODMANS	VCP650/550	DEAD	CHECK MAINS TRANSFORMER FOR O/C
GOODMANS	VCP660	INT NOT ACCEPTING OR EJECTING TAPES	CHECK AROUND R610 FOR DRY JOINTS
GOODMANS	VCP660	NO DRUM ROTATION	REPLACE STATOR MOTOR
Goodmans	VCR1000	Int stop	Clean take up reel sensor & mirror
Goodmans	VN6000	Dead	C823 3300µ 10v
Goodmans	VN6000	Dead	Check power reg tr, C822 330µ 10v
Goodmans	VN6000	Dead	C822 1000µ 10v psu sec
Goodmans	VN6000	Dead - Ever 5v supply low	C822 330µ 10v
Goodmans	VN6000	Dead when plugged in from cold	5.8v low at 5v due to C822 330µ 10v
Goodmans	VN6000	Flashing display, buzzing & no play aft loading	Mains smoother 82µ 400v in psu
Goodmans	VN6000	Int Cuts out, display goes out, drifts off tune	Replace C822 330mfd 10v C823 1000mfd 10v in PSU on 5.8v rail
Goodmans	VN6000	Int power up	C822 1000µ 10v in psu uprated
Goodmans	VN6000	No functs/won't accept tape/ display disappears	C822 330µ 25v & C823 1000µ 10v & possibly other elects in psu
GOODMANS	VN6000	NO TUNING OR E-E	REPLACE D103 DIOD1N4148
Goodmans	VN6000	Won't sw off & clock flashes	C822 330µ 10v (Volts across should be 5.8v)
Goodmans	VN6000 Daewoo G	Power problems	Replace C822 330µ 10v, C823 1000µ 10v, C824 100µ 10v & C826 3µ3 50v
GOODMANS	VN8000	DEAD	REPLACE IC7507 STV6400
GOODMANS	VN8000	NO E-E, NO SOUND ON PLAYBACK	CHECK FOR DRY JOINTS ON IC7420 12V REGULATOR
Goodmans	VN8000	No functs & tape stuck	20p coin had been inserted which blew R3440 2R2 fusible in supply to to mode motor drive IC L2727
Goodmans	VN9000	Int accept tape, load, eject, display etc	D820 16v zener overheating - replaced along with C23 100µ 10v, C13 47µ 16v, C26 22µ 50v

Goodmans	VN9000	No OSD - only lines in Menu mode	Replace Xtal 001 (17.734476Mhz) associated with the OSD chip (marked 12BKK8W5) which resides half way along the rear edge of the main PCB
GOODMANS	VN9000	NO RF OUTPUT	CHECK C183 FOR DRY JOINTS
GOODMANS	VN9000	WHEN TAPE INSERTED UNIT GOES DEAD	DRY JOINTS ON C23 INSIDE POWER MODULE
GOODMANS	VN9000PDC	INT NO SOUND ON RECORD AND E-E	CHECK FOR DRY JOINTS ON X102 NICAM CRYSTAL
GOODMANS	VN9000PDC	NO FUNCTIONS DISPLAY OK	CHECK FOR DRY JOINTS ON D23 IN MODULE M801
Goodmans	VN9500S	Dead	R804 & R805 390k in start up cct
Goodmans	VN9600 Daewoo K	Int no rew or Play	clean mode sw
Goodmans	VN9600B	Dead	C805 47µ 400v bulging & faulty - also replaced C806 1µ 160v
Goodmans	VN9600B	Erratic mech functs	mode sw - clean or replace
Goodmans	VP2350	No rec col	LA7437A lum/chrom chip (expensive)
GOODMANS	VP2360	NO FUNCTIONS "LOCKED" APPEARS ON DISPLAY	REPLACE EEPROM IC**ST24C04CB1
Goodmans	VP2400PDC	Int loss of tracking & sound in Pback	Tape riding up capstan - Pinch wheel & arm replaced
Goodmans	VP2400PDC Turbo	Childlock disabling	Hold in the standby button whilst plugging in the mains lead.
Goodmans	VP2500 Daewoo	Cuts out in Play/Rec aft 20 mins with increase in drum speed	Head drum pt no 97SA324300
Goodmans	VP2500 Daewoo	Head spins fast, tries to load with no tape. Shows ERR on display	D519 leaky on ever 6v rail. IN4003
Goodmans	VP2500 Daewoo	Loads tape then ejects & reverts to st/by leaving slack tape	Remove load motor ass'y to get to mode sw which reqs cleaning
GOODMANS	VP4500	HIGH PITCHED WHISTLE ON E-E	REPLACE C176 470MFD BESIDE TUNER
GOODMANS	VP550	CUTS OFF ON REWIND AND F/F	REPLACE REEL TABLE DAEW9752901600
Goodmans	TX1200	drum rotates too fast	resolder R525 chip resistor 10k near servo
Goodmans	VN6000	dist e-e sound & no hifi pback or rec sound	CW06 & CX09 caps in hifi audio cct both 4µ7
Goodmans / Daewoo	VP2500	No playback pic - 1 head faulty symptom	C408 connected to pin 89 of IC301faulty
GOOMANS	VP5500	BLACK LINES IN MENU MODE	REPLACE X001
Granada	V/WHSP1/A Philips Turbo	Comes on displaying E1 and wont change channel	Replace the 5.5v 0.22F backup capacitor
Granada	VHSGH2	No rec sound or full erase	Q401 a 2SC2553(used a BC637) and C418 a 33uf which had leaked.
Grundig	GV200	To release lock code	Press 'Code' on the remote Enter 4,9,3,4 Press 'OK' and then 'Standby'
Grundig	GV201-1	No erase in LP only	EEPROM chips IC7410 & IC7412
Grundig	GV400	To turn RF mod on/off	Hold "Stop" & "Eject" buttons together

Grundig	GV411	Contrast low on RF output - ok on scart	BC858B sm leaky in video signal to RF modulator path
Grundig	GV411-1 Turbo Deck	Loads cassette then cuts out (Drum fault)	Replace transistor 7077 BC848B SMC Monoflop Connecting from pin 1 Plug 1501 FG signal to pin 10 of IC 7060 (processor)
Grundig	GV420	noisy drum motor	hardened grease on spindle thrust pad
Grundig	GV469M	Dead	C136 1µ 400v & check for dry joints
Grundig	GV496M	Dead	C136 1µ 400v & dry joints
Grundig	GV500GB	Dead 1.25A fuse o/c	BYW98-200 & BUK454-800A diodes in psu s/c
Grundig	GV540	Won't load tape , head spins at high speed .	Check amplitude of PG signal on pin 1 of uP (IV7050) , if lower than 5v check by replacement transistor 7065 (BC858B SMD)
Grundig	GV540GB	Weak contrast in all modes	OSD module I/p ok at pin 5 but low at o/p pin 7 - tr 7905 BC858B o/c b-e
Grundig	GV6001	Dead	Mains bridge rect s/c & 1.25A fuse o/c (difficult to work on psu)
Grundig	GV6001	sound but no picture on play from either the scart or modulator	Transistor 7802 BC858B sm s/c (back of main pcb)
Grundig	GV6001V+	No play - drum not rotating	Drum seized - can be relub by dismantling (remove heads first)
Grundig	GV6401	no e-e sound - pback sound & rec sound ok	Audio from tuner ok at sound proc pcb. No RF or scart o/p from it. IC7100 pins 44-48 noise red sect has sound but no o/p at pins 17-22 - IC u/s
Grundig	GV8400	Tripping	replaced C2361 47u63, just in front of the chopper control i.c.
Grundig	GV9110	Pin code - to disable or change	Press CH up & Rec. buttons on VCR for about 5 sec's. The VCR thinks you've entered correct pin code then enter menu & disabling, making a note of, or entering a new pin number.
Grundig	TVR3710	No manual record with no response from the buttons	- hold the button down for at least 3 seconds and then it works...
Grundig	VS 680	Incorrect colours and smearing on Text and DOS functions.	Replace C762 / C763 / C765 in the DOS section of chassis board 2.2uF 100V Fit 105 Deg. types.
Grundig	VS220	TAPE GOES IN BUT LOADING RING STARTS TO MOVE THEN STALLS	BACK TENSION ARM STIFF IT SHOULD MOVE FULLY TO LEFT BEFORE LOADING CONTINUES
Grundig	VS300/340	No initialise/play/wind with "F7" flashing	capst motor has dead spot
Grundig	VS440	"A0" in display - childlock on	When removed no tuning memory, faulty RAM chip in tuner - new tuner reqd
Grundig	VS440	No signals e-e	Checked all supplies present - tuner repaired at MCES £29.96
Grundig	VS500	"A0" in display	Select 4934 on RC then 0000key - should clear it
Grundig	VS510	Dead	C1326 47uF 25v , C1325 1uF 100v
Grundig	VS510	Vert jitter every 3 secs	Impedance roller P1 reqs lub
Grundig	VS520 VS540	Display only shows version number . If disconnecting pins 5 & 6 IC610 cures .	Replace IC610
Grundig	VS520/540	EEPROM version shows perm -eg"22"	Unsolder pins 5 & 6 of clock IC610 & retry. If OK then change IC610
Grundig	VS540	Locked up - AO displayed - security lock set	clear lock by s/c 2 test pins on front pcb. If timer & station tables filled with gibberish - back up batt may be flat. Also check soldering around ICs190, 120 & 119 on lower pcb. If ok replace PCF8583 clock/RAM IC & battery

Grundig	VS540	No signals e-e	Phase locked loop chip in tuner type SDA3202-2 now replaced with TSA5511
Grundig	VS720	Sound on pback weak & tinny	Check C425 4µ7, C423 47µ & C415 4µ7 on audio/video pcb
Grundig	VS910	Sound poor on rec/pback	C423 in sound path from ACE head to sound IC
Grundig	VS920	dead or pulsing psu	C1626 47µ 25v also check 9 x 220µ caps
Grundig	VS920	no mechs when cassette inserted	solenoid faulty - can be repaired by replacing thermal fuse
Grundig	VS920	no r/c operation or modulator o/p	check control codes:- 8516+OK=vid 1; 8517+OK=vid 2; 8518+OK=mod off; 8519+OK= mod on; 4534+OK= unlock (if lock is displayed)
Hinari	HI2V	Dead	315mA fuse o/c only
Hinari	HI2V	Powers down aft 1/2 sec	F803 2A o/c, D804 1N4004 s/c & D802 split in 2
Hinari	HI2V	Won't accept tape - sw off aft 5 secs	Clean mode sw
Hinari	HI2V	Won't accept tape - tries loading without tape in	Mech timing 1 tooth out
Hinari	VTV100	No Play/FFwd etc	Idler jamming - clean or replace
Hinari	VXL4	int dirty head symptoms	dry joints head pre-amp plug on main pcb
Hinari	VXL4	Plays ok to start with then top of picture flickers gradually becoming worse until top of pic folded over and colour lost	Remove capstan motor clean and oil bearing
Hinari	VXL4	SLOW DRUM ROTATION THEN STALLS	IC01 BU2716S
Hinari	VXL5	Int stop in any mode =- counter erratic	Replace reel TU sensor WVE Pt no 72005 £7.84
Hinari	VXL6	blank raster in pback	IC303 pin 26 (mute) did not drop to 0v - IC101 pin 11 not producing 5v vert pulse - IC101 faulty
Hinari	VXL8	No FFwd/Rew	Rubber grommet/boot on sliding plate worn - replace or reposition
Hitachi	FX850E	Selecting RF O/P	with the set in standby press play /still button the display on video should read RF 35 if it reads RF_ _ there may be no rf output , so while still in standby press stop button and RF_ _ appears and the required rf output can be selected using the channel up down buttons if no rf is required it can be switched off at this stage by pressing stop again
Hitachi	MX748E	Modulator adj	press play in s-by, ch up/down sets the output and stop button switches it on and off.
Hitachi	Various	Hardware Reset	Power up whilst holding in Record & Reset buttons
Hitachi	VCF860	switching points with a 3 inch noise band near the top of the picture	open circuit C614 2.2uf cap in the servo stages.
Hitachi	VCM835	Display long time to appear	Check caps in psu
Hitachi	VT120	E-E int overloads	IC203 module HT4757A on Y/Chr pcb
Hitachi	VT120	No play - tape loads then unloads	No 4.43Mhz I/p to servo chip pin 32. IC301 HT4539B o/p int - chip faulty
Hitachi	VT130	Low e-e & rec sound	C08 4µ7 35v in mod/if unit
Hitachi	VT130	Pulling, lines etc in E-E , OK in Pback	Replaced many hi esr caps in modulator but no improvement gained - replaced mod/tuner with a scrapper which cured problem

Hitachi	VT250E	Capstan sluggish	C12 & 13 470µ 16v in psu
Hitachi	VT33	Display & E-E ok But will not accept tape. if tape manually inserted No deck functions	Check 9V Switched supply Replace STK5421
Hitachi	VT33E	Dead	STK5421
Hitachi	VT350	No display	No -20v dc-dc conv IC711 (PC710) u/s; L701 100µH o/c
Hitachi	VT410	Capstan lock poor sw between LP/SP	ACE head
Hitachi	VT410	Dead	No sw volts o/p from psu - chip not getting power on signal due to faulty LA7935 on VST tuning panel
Hitachi	VT410	E-E pic int weak contrast with lines	IC201 HT4847G
Hitachi	VT410	Int when play or record selected drum would just kick rather than rotate	Thick film chroma processing chip IC301
Hitachi	VT410	Loops tape on rewind	spring on loading motor shaft snapped, so brake trigger inoperative
Hitachi	VT410	Pback pic poor	IC201 HT4847G
Hitachi	VT410	Wont accept cassette	Check IC902 BA6209 & R900 4R7 o/c
Hitachi	VT410	Won't accept cassette	end sensor
Hitachi	VT420E	Poor smeary output video signal on E to E and Playback with lack of frame sync.	Resoldered poor contacts on wire feed thru's between pins of IC201.
Hitachi	VT450	Hum bar on E-E. Pback & Rec	Reg o/p = 13v with ripple instead of 12v - STK5372H faulty
Hitachi	VT510	No rec sound or full erase	Q401 a 2SC2553(used a BC637) and C418 a 33uf which had leaked.
Hitachi	VT520	Capst motor stops/starts every sec when warm	Pic on own recs appears to skip frames - capstan motor
Hitachi	VT520	Chews tapes or no play, eject , rew etc	Reel clutch ass'y under deck
Hitachi	VT520	Load arms jamming against tape search lever	Main cam worn
Hitachi	VT520	No play - tape loads then drum stops	Mode sw
Hitachi	VT520	Rec sound warbles - worse in LP mode	Reel clutch ass'y under deck
Hitachi	VT520E	Int take up	Take up idler cracked - tried several faulty used ones before I fitted a new one
Hitachi	VT530	Cassette housing mech needs to be retimed regularly	Replace start and end sensors
Hitachi	VT530E	Pic pauses every sec aft an hours play	Capstan motor (gets very hot)
Hitachi	VT540E	Poor sound on own recs - ok on pre-recs	C20 100µ 16v leaked in IF module
Hitachi	VT63E	Capstan int in FFwd & Rew	Dead spot on Capstan motor
Hitachi	VT65	Functs erratic & non operative	Funct sw u/s Pt no 5633911
Hitachi	VT7E	When play selected stops aft few secs then starts playing again - repeats	Loading belt
Hitachi	VTF140E	No rec, Nicam lights flash, poor pback pic with graunching	Check/replace elect caps in psu sec
Hitachi	VTF150	Capstan int & noisy	C12 470µ 16v in psu
Hitachi	VTF150	Capstan motor low torque	C12 /13 470µ 16v on 14v rail (Note – take caps out to check –in parallel)
Hitachi	VTF150	Dead - no display	C12 470µ 15v hi esr in psu

Hitachi	VTF150	Play not working	Half load arm spring broken - not available separate
Hitachi	VTF150	Squawk only at power on	Zener D9 s/c & C16 hi esr
Hitachi	VTF150	Tape runs slow & grinding noise	C12 & C13 470µ 16v in psu
Hitachi	VTF150E	Capstan motor labours, Rfo/p flickers upon tape insertion	Replace C12 470µ 16v, C34 & 35 4µ7 35v,
Hitachi	VTF150E	Dead	Replacing capacitors C6, C34, C35, C12, C13, C15, C23, C11, T1.6 fuse and a new pinch roller had this fixed.
Hitachi	VTF150E	Dead	µ 250v cap in psu pri, 18v zener in psu sec s/c & check caps in sec
Hitachi	VTF150E	Dead - no display or mechs	No -30v pin 3 psu connector. Dry joints on chopper transformer (where the wires are connected to the legs - not the pcb conns)
Hitachi	VTF150E	Ffwd/Rew slow	paint peeling off supply reel interfering with reel pulses - replace reel pt no 6416631 & TU reel pt no 64166651
Hitachi	VTF150E	scrambled pic in e-e - ok on scart	replace electrolytic caps in if can
Hitachi	VTF150E	Sound on Pback has wow & E-E pic flickers	Ripple on V-Capst o/p - C12 & C13 470µ faulty
HITACHI	VTF150E	SOUNDS LIKE FAULTY CAPSTAN MOTOR	REPLACE C12 AND C13 IN POWER SUPPLY 470MFD16V (2)
Hitachi	VTF250	Capstan motor noisy - also eject may be affected	C12 470µ in A14V supply
HITACHI	VTF250E	SOUNDS LIKE FAULTY CAPSTAN MOTOR	REPLACE C12 AND C16 IN POWER SUPPLY 470MFD16V (2)
Hitachi	VTF350	Int stops in rec, int lines, dist sound etc	replaced all electro caps in psu
Hitachi	VTF350	noisy capstan motor	C12 470µ in psu
Hitachi	VTF350	Play runs slow tho' replacement capst motor fails to cure	C12 & C13 470µ 16v in psu
Hitachi	VTF350	won't accept tape when cold & screeching noise from capstan	C12 470µ 16v o/c also check C16 & C11
Hitachi	VTF350E	No display & vcr goes straight in to play then shuts off	No -30v supply pin 3 of psu conn. R36 68R fusible 1/6w o/c also change C15 10µ 50v
Hitachi	VTF350E	R/C int - not Hset	Resolder joints to main pcb at PG951 front panel link
Hitachi	VTF360	Dead	C's 0865, 0874, & 0871 all 47mfd 63v hi esr
Hitachi	VTF360	Int failure to eject tapes	loading motor chip BA6209 dry joint
Hitachi	VTF360	Int sigs from tuner	Dry joints IF/tuner
Hitachi	VTF360	Int slack tape on eject	Mode sw
Hitachi	VTF360	Plays for a few secs then stops	Change elects in PSU (may read ok on esr meter) - PSU difficult to access
Hitachi	VTF360E	int e-e & pback sound	int conn at earth return at head amp/ audio panel pcb conn to main pcb
Hitachi	VTF360E	Int no control tracks recorded & tape edge damage	Back tension band pad had parted company
Hitachi	VTF360E	Sluggish eject & slow pback	Check capstan motor clutch
Hitachi	VTF450	Dead	QF901 N5 cct prot o/c 250mA
Hitachi	VTF450	Dead, no display, psu tripping	Cap 47µ 63v on live side of psu next to chopper heatsink

Hitachi	VTF450	Noisy pback, Ffwd & Rew	cassette not dropping far enough - toothed drive belt stretches & knocks on chassis - also replace tu pulley
Hitachi	VTF450E	Capstan servo symptom (int snowy pic)	check tension band
Hitachi	VTF450E	Int stops in Pback etc	Strip & clean capstan bearings
Hitachi	VTF450E	Int won't accept tape, cass in indicator perm lit	Ribbon cable conn PG09-1 on main pcb from cass housing not fully home
Hitachi	VTF540	Int tape looping & chewing - Noisy FFWD/Rew	clutch unit fallen apart
Hitachi	VTF540	slack tape on eject & no FF REW or take up	Pulley Pt No 6823333 sprung open
Hitachi	VTF540E	No take up, FFwd or Rew	Pulley pt no 6823333
Hitachi	VTF540E	Slack tape on eject	Back tension felt strip partly adrift - Pt no KX11631
Hitachi	VTF545	Timer recordings inop	When the time to rec nothing happens but prog goes from timer preview list - reset using sw hidden under facia panel
Hitachi	VTF54S	No take up	main drive clutch fell apart -replace pt no KX17581
Hitachi	VTF550E	Cassette lift or tape threading problems	Clutch ass'y dropped to bits Hitachi ref KX17581
Hitachi	VTF550E	Int loss of front controls	Dry joints PG2701 on front panel
Hitachi	VTF645E	No or int reel rotation with slack tape on eject	Check reel drive pulley/clutch, back tens band, gear drives KF10513/KF10501 & capst motor
Hitachi	VTF645E	Sluggish loading & int slows down in Pback	Tension band pad had come adrift exposing sticky surface that was slowing supply reel
Hitachi	VTF650	Int reverts to st/by at sw on when mechs moves	Capstan motor bearings may be the cause
Hitachi	VTF650E	Tape loading laborious, then shuts down with slack tape	Tension band stuck to supply reel pulley - replace band
Hitachi	VTF66	Tape chewing - may be int	Check back tension band for exposed glue
Hitachi	VTF660	Vid sig low in e-e & pback (blue mute on)	IC201 HA118203F vid/aud proc chip (sig at pin 57 poor & crushed)
Hitachi	VTF660E	dead	no o/p from psu - C6 1µ 250v
Hitachi	VTF660E	Interference on pic when using scart	IC4501 BH7633AS signal routing chip
Hitachi	VTF70	No Pback & noise bars in e-e aft power cut	STK5372 power chip
Hitachi	VTF700E	Capst phase faulty in pback when cold - rec ok	C613 47µ 16v o/c
Hitachi	VTF70E	Chews tape on reverse search	Back tension arm too much pressure due to wear in linkage of slider mechs pt no 8909082F
Hitachi	VTF765E	Dead aft lightning strike	STRF6653 chopper chip I085 & opto couplers PC0851 & 0852
Hitachi	VTF77	No mechs & all display segments lit - "Code 1" shows when funct selected	Replace caps 220µ & 33µ on front pcb & check for corrosion
Hitachi	VTF770	capstan motor speed faulty	C622 0µ47
Hitachi	VTF770	Mechs jams when tape unlaces due to ½ load arm not moving enough	Replace arm, idle 6898472 & arm 6976372 even tho they may look ok
Hitachi	VTF770	worn head symptoms	dry joint head amp plug
Hitachi	VTF770E	Dead - the 5v supply heavily loaded	Castan motor GP10254

Hitachi	VTF770E	Noise bars on Pback	Replace C1656 10 mic 25 volt. Drum phase signal low
Hitachi	VTF770E	Poor pback - can be int - head sw point varies	Tacho pulse pin 7 IC601 low instead of 3.3v p-p - C1656 10µ 16v
Hitachi	VTF770E	Poor rec pic	C5F 0µ47 AGC cap in IF module
Hitachi	VTF770E	Tracking error symptoms (no capst lock)	C613 47µ 16v leaking
Hitachi	VT-F770E	blue pic from tuner,sound ok. PB is ok/weak cols in Rec or E-E	C05 (O,47 uf) -C31(0,1uF) -C37 (1uF)- C40 (47uF) -C42 (6u8) i IF can , soldered to tuner
Hitachi	VTF780	Dead - psu blown	Q851 2SA1441, ZD856/857 overvolts zeners
Hitachi	VTF780	Display dim	C2853 22µ 50v (-28v supply reg smoother)
Hitachi	VTF780	Noisy capstan motor	clean & lub
Hitachi	VTF780E	Noise band at top of pic due to loading arms not fully loaded	Grey master cam (bottom one of two) was damaged - item 250 12009AP from CHS
Hitachi	VTF840/860	Several functs lit in display & no remote functs	Break in wire to swing down front flap (Don't remove front flap to repair - remove 4 screws from lower edge & remove cover with Hitachi badge on it)
Hitachi	VTF860	dead	C6 1µ 250v - can be replaced without removing psu
Hitachi	VTF860	Disturbance on pic when tape loaded/unloaded	C12 470µ 16v in psu
Hitachi	VTF860	Fails to start from cold usually after mains disconnection	C6 (1UF) 250V in PSU
Hitachi	VTF860	Noisy ffwd & Rew	Capst motor partially siezed & replaced
Hitachi	VTF860	OSD int shows during pback	M50458 IC1401 OSD gen chip faulty
Hitachi	VTF860E	Crosstalk between E-E & pback sound	C514R 4µ7 35v
HITACHI	VTF860E	DEAD	REPLACE C6 IN POWER SUPPLY 1MFD250V
Hitachi	VTF860E	Dead aft power cut	1µ 250v cap in psu
Hitachi	VTF860E	Head loses servo lock everyfew secs	C612 22uF 10v , C613 47uF 16v . These are positioned on RH side of main PCB
Hitachi	VTF860E	loss of mono audio pback	linear audio proc chip IC401
Hitachi	VTF860E	No capstan servo lock on pback	Pulses at TP604 low at 0.3v p-p instead of 1.7v; C613 4µ7 16v o/c in preamp cct
Hitachi	VTF860E	No operation - Slo Mo & Rew show together	Wire snapped to front control panel
Hitachi	VTF860E	Noisy capstan motor & poor sync	C602 2µ2 50v, C622 0µ47 50v hi esr
Hitachi	VTF865E	Dead	C6 1µ 250v & C12 4700µ 16v in psu
Hitachi	VTFX***	Flashing front display with no graphics	Cherck seating of rear scart socket panel
Hitachi	VTFX***	Shuts down on power up after ejecting tape - like timing error	Check the carriage motion sensor isn't broken board (looks like a switch or opto sensor when broken) - ref. S2102 chas hyde order code 12014mf. £1.39
Hitachi	VTFX765E	Dead with 320v at chopper Tr	Volts at start up res R856 220k only 2.5v (12-14v) - PC851 opto PC123FY leaky between pin 3 - 4
Hitachi	VTFX770E	Dead - pri HT present	Opto coupler PC851 (PC123FY0 leaky pins 3 -4; pt no CF10431G

Hitachi	VTFX850E	RF modulator switching off	Prwess PLAY with VCR in st/by. Display = CH39 (for eg), Press STOP; Display = CH-- then press operate
Hitachi	VTFX850E	RF modulator switching on	Press PLAY with VCR in St/by. Display = CH--; Press STOP, Display = CH39;(for eg), then press operate
Hitachi	VTFX850E	Tape looping on eject - worse at start of tape	Capstan motor
Hitachi	VTFX860	Display dim - backlights failed	Replace with plain ones from CPC (part number SC00336, just under 2ukp per pack).
Hitachi	VTFX860E	Tripping	Replace cct prot N10 psu sec QF0873 - reqs strip down to access & watch charged mains cap!
Hitachi	VTFX880E	Dead - psu trips	Check ICPs in sec of psu - QF0873 N10 o/c
Hitachi	VTFX940	Dead	Plug fuse & internal mains fuse o/c - D6310 bridge rect s/c
Hitachi	VTFX980	Chews tapes	Clutch ass'y dropped apart due to worn plastic locating lugs - fit new clutch
Hitachi	VTM140E	Tape looping on eject	Tension band sticking - felt pad had slipped
Hitachi	VTM210	Tape stuck - when sw on heads spin few secs then off	No load motor activity as its driver chip had no supply - 2R2 fitted in place of K1416 link (not marked on cct diag)
Hitachi	VTM210E	machine works perfectly except for a constant clicking noise caused by capst motor pulley split	Remove pulley and file it out so as not to be splayed out then superglue back
Hitachi	VTM212E	Clicks in all modes	Nylon drive cog at base of capstan motor split - unobtainable, but new motor inexpensive
Hitachi	VTM212E	Dim display	minus30v being dropped in micro IC901 - fit replacement pcb from Sendz
Hitachi	VTM212E	No R/C response & front controls sluggish	Dry joints at conn on front panel
Hitachi	VTM230	FFwd/Rew int	D/Js on pins 1,2,3,4,5 of PG653, on vertically mounted pwb (connects directly to main pwb), opposite r/h of carridge.
Hitachi	VTM230	Int chews tape	Pinch roller innards split
Hitachi	VTM230	jams when loading cassette	plastic collar that secures p roller split
Hitachi	VTM328	Slack tape on eject	Back tension band falls apart
Hitachi	VTM410E	Erase int	Q406 sm in bias osc cct
Hitachi	VTM410E etc	Dead, +320v present on chopper Tr	chopper Q851 FS5TM-18 leaky gate-source (MOSFET, 5A, 900V); D0873 D1NL40 leaky (400V, 0.9A, <50ns) sec PSU
Hitachi	VTM430	crackling static sound on playback	replace clutches 212 & 213 & special coated capstan belt
Hitachi	VTM430	switches off in play & rec	put 4hr tape in machine 1/2 way thro, press PLAY/Rev Search. If capstan produces loud thumping noises motor is faulty
Hitachi	VTM430E	Capstan motor fails to rotate	Check R1919I 2R2 safety res loading chip feed o/c
Hitachi	VTM430E	No capstan movement - may be int	2R2 safety res R1919? Int o/c (rh front corner by controls)
Hitachi	VTM430E	No rew	Retaining clip missing from intermediate gears
Hitachi	VTM430E	Stops int in play	Capstan motor faulty - lub does not work

Hitachi	VTM430E	White sparklies on pback	Static build up fit mod kit (belt, take up gear & gear pt nos 6358101, KF10271, 6406291)
Hitachi	VTM448	Int shuts down in play etc	Check capst motor bearings - if nec lub
Hitachi	VTM502E	Playback pic unlocked & warbling sound	Q7469 BC848B sm in control pulse path
Hitachi	VTM502E	poor pback video - e-e ok	Tr7007 sm BC848B
Hitachi	VTM502E	thread motor perm tries to eject cassette housing	motor drive chip perm on due to TMO line from micro pin 35 wrong. Faulty micro .
Hitachi	VTM510E	Sound in e-e low & buzzes	C2727 22µ
Hitachi	VTM545E	Goes to st/by 1 sec after sw on - int	Microsw to RH side of cass mech on pC panel int sticking in depressed posn
Hitachi	VTM610E	Dead with R3357 burnt out	Check/replace IC7354 MC44603P, T7350 STP3NA60, D6351 BAT185, D6352/3 BYD33D, R3357 4k7 0.1w, R3361 47R 0.33w
Hitachi	VTM610E	Int stop - int take up	Clutch replaced
Hitachi	VTM620	Fails to eject cassette	Capstan motor stiff remove motor clean and reinsert
Hitachi	VTM620	No sound for 5 mins in play	check C411 & C407 both 47µ 16v
Hitachi	VTM620	Poor Capstan lock	C901 47µ 16v; C622 10µ 63v
Hitachi	VTM620	Slow capstan speed	No ctl pulses - C610 10µ 16v
Hitachi	VTM620E	No Sound on pback or hum when ace head touched	Ok at pins 21 & 23 IC401- no volts at pin 15 (2.3v). C480 560pf leaky & C402 1µ 50v leaking
Hitachi	VTM620E	Not erasing prev sound with col breakthro' (no bias osc)	C418, 33uf 16v elect cap, leaking in osc circuit
Hitachi	VTM620E	Previous soundtrack not erased - bias osc not working	Q401 short Circuit 2SC3553, used a BC337
Hitachi	VTM620E	Switching point varies in rec & play	C616 & 617
Hitachi	VTM622	No drum servo in rec - ok on pre-recs	Clean ACE head
Hitachi	VTM622	No pback sound - e-e sound ok	C404 33µ 10v
Hitachi	VTM622	Sound not recorded - ok in E-E	C418 33u hi esr
Hitachi	VTM622	Wont play some tapes - control pulses low	Not ACE head or C631 - added 330R res across R631in control amp to increase its gain
Hitachi	VTM622E	No sound playback or e-e	Replaced C402, C404, C405, C406, C407, C410, C411,C413, C423 and C424
Hitachi	VTM622E	Whistle on e-e superimposed on sound	IC401 LA7295 audio chip
Hitachi	VTM622M	No effective control pulses	Changed C610 to 100µ, C631 to 47µ, C632 to 100µ, R630 to 560k, R631 to 100R, R632 to 470R
Hitachi	VTM630	patt/dropout on top of pic on own recs	C1 10µ 16v in chr hybrid module
HITACHI	VTM630	PLAYS SP TAPES IN LP	REPLACE WORN ACE HEAD HITA5446635
Hitachi	VTM630	poor tracking - capst int runs at half speed	control pulses low ampl. C631 sus or fit 330R res across this cap to increase gain of control pulse amp
Hitachi	VTM631	Dead	47µ cap in PSU pri

Hitachi	VTM640	LOW CTL PULSES	C631 47uF 16v
Hitachi	VTM640	On a 3 hour tape, plays back in LP, displays SP	change R630 390K to 680K. R632 1K to 330R R629 3K3 to 680R
Hitachi	VTM640	Sound poor E-E & Pback	C407 leaking electrolyte around sound proc IC
Hitachi	VTM640E	No capstan during Play or Rec - ok in ffwd/rew	C626 & C627 47µ 16v
Hitachi	VTM646	No erase osc	C426 33µ 16v o/c (11v supply decoupler)
Hitachi	VTM720	cass housing tries to load without tape in it & cassette in symbol displayed	dry joints at link K2546 next to pin 11 of plug PG1504
Hitachi	VTM720	Cassette accepted but jams on eject	Door fails to open due to broken bracket on door lift ass'y
Hitachi	VTM722	Various inc unstable audio, ctuck in LP mode, servo hunting	4µ7 cap in the relevant faulty area leaky
Hitachi	VTM722E	Int jams	Cass flap lever on RH side worn - bend to compensate
Hitachi	VTM722E	Int play Ffwd Red	Retaining ring come out of clutch assy: as a result the pressure spring was free to push the reel drive gear upwards
Hitachi	VTM722E	Tape stuck combi motor gives 'kick' when powered	Removed with help of 6v battery and capstan motor lubricated
Hitachi	VTM722E	Vibrating noise	Capstan motor lub
Hitachi	VTM740	Flahing on rec ok on pback - no full erase	Q1542 2SA952 sw tr
Hitachi	VTM740	No sound rec - erase ok (just hiss)	C408 4µ 35v IC401 aud proc chip decoupler faulty
Hitachi	VTM740	noise lines on back - loss of drum phase sig	C1656 10µ 25v passses drum phase pulses at pin 11 of conn PG1643 on main pcb
Hitachi	VTM740	Record control track written incorrectly -when cold	Servo chip faulty
Hitachi	VTM740E	When ejecting, tries to reload tape	Clutch base ass'y
Hitachi	VTM753	E-E pic crushed with int blue screen	C4708 10uF 16V on the built in teletext board & check other caps here
Hitachi	VTM768M	Dead	C108? 1µ 250v in psu
Hitachi	VTM820	Intermittent squealing noise with rippled picture	Plastic impedance roller upstream from entry guide remove clean & Replace
Hitachi	VTM820E	Capstan pulses twice per sec	C614 2µ2 50v on main pcb next to capst conn
Hitachi	VTM822	tape looping on eject	usually gear clutch assy but was bottom of cass holder bent down
Hitachi	VTM822	When setting timer with hset, ERR appears in vcr display	Check/replace hset batteries
Hitachi	VTM822E	Intermittent failure to accept tapes - "Tape In" indicator lit with no tape present	Replace RH tape end sensor.
Hitachi	VTM822E	Normal video, but E-E sound instead of off-tape	Replace IC401 (LA7297)
Hitachi	VTM830	cass housing tries to load without tape in it	take up end sensor dry joints
Hitachi	VTM838E	Dead - slight squeal at sw on	CR54 zener diode marked 20B2 s/c (I used 20V zener), ICP F51 N38 s/c. (Make sure you check this ICP first, otherwise it will blow the zener again.)
Hitachi	VTM920	Stops aft 3 secs in all functs except pause	TU reel sensor replaced
Hitachi	VTM930	Int won't accept tape or loads on its own	End sensor lead broken
Hitachi	VTM930	Tries to load without tape inserted	BOT sensor broken leg

Hitachi	VTMMX835	RF retuning	Press PLAY/PAUSE (on VCR)while the set is in stand-by, then CH UP/DOWN on remote then standby to memorise.
Hitachi	VTMX110E Turbo	Dead	MP160 LT fuse o/c which blew when replaced - traced to faulty capstan motor (no movement although drum twitches)
Hitachi	VTMX730E	RF output freq adjust	In st/by without a tape. Press play key on front of machine. Display should indicate RF-- if Rf converter is switched off. Press stop key on hand set and display should indicate RF channel (i.e. RF35) The converter RF channel can now be adjusted using the CH up/down buttons on front of machine. Press power button to memorise RF channel.
Hitachi	VTMX810E	Int loss of E-E & Pback sound via RF o/p	Dry joints earth lands in tuner/modulator
HTC	TVR402	Accepts tape then no functs	Clean mode sw
ITT	VR3916	Take up tacho pulses missing	Reel opto sensor faulty
ITT	VR3917	Weak/erratic capstan drive in FF/Rew/Play & no drum rotation	STK5482 faulty - pin3 was only 2v (5.1v)
ITT	VR3918	No chan store	The -30v supply low at -18v that feeds eeprom - R5008 47R safety res in PSU o/c
ITT	VR3918	No loop thro', e-e or Pback sigs	No AT12v - Q5004 2SC3807 s/c b-e (used BD131)
ITT	VR3919	blank raster on E-E with no sound, tape movement in all modes was jerky & no eject.	Q4 (2SC3807) s/c B-E in the psu
ITT	VR3946	INT POWER SUPPLY WON'T START	C701 C702 47uF LOW D22 OC
ITT	VR3975	No rec sound for 10-15mins on timer recs	Changed caps in sigs path C4, C2, C18 & C19
ITT	VR5740	No FF/Rew	Idler travel restricted - mode sw cleaned & replace capst belt
JMB	D1020	Black bands across screen in Pback & E-E	C4084 2µ 50v
JMB	JMBC1499B	EEPROM settings	00-10 0D-B3 1A-35 27-F1 34-00 01-1E 0E-35 1B-5F 28-01 35-00 02-04 0F-66 1C-05 29-F0 36-00 03-6A 10-F9 1D-F0 2A-0E 37-00 04-00 11-40 1E-05 2B-00 38-00 05-00 12-80 1F-F3 2C-01 39-00 06-00 13-40 20-00 2D-01 3A-00 07-2F 14-00 21-00 2E-06 3B-00 08-44 15-6A 22-00 2F-01 3C-6C 09-20 16-00 23-00 30-04 3D-2B 0A-02 17-35 24-00 31-00 3E-21 0B-08 18-A3 25-5F 32-00 3F-15 0C-00 19-89 26-01 33-18
JVC	HR7350	RUNS FAST	C65 OC 10uF 16v

JVC	HR745EK	No sound mute in search & interference from drum motor	Check C971, Q951, Q952 & D962 in psu
JVC	HRA230	no rewind or rev search when heated	supply reel sensor Pt no PU61433
JVC	HRA631EK	Cassette ejected after being inserted	Nylon pin that operates the cass down sw missing
JVC	HRD120	Patterning on Pback	C16 47µ in psu
JVC	HRD170E	Sw off aft few secs & won't accept tape	CP4 F20 fuse o/c but blew when replaced - reel motor faulty
JVC	HRD180	Whistle on sound & ripple on pic e-e -OK on pre-recs	C5 47µ in psu low cap
JVC	HRD180E	No take up	capstan motor faulty
JVC	HRD180E	tape stuck	mode sw
JVC	HRD210	No rec - ejects tape when timer set	earth screws on mode sw pcb not tight
JVC	HRD220	drum lock	magnet on drum motor had moved - readjust screws holding bracket
JVC	HRD225 Ferguson 3V36	Will not accept cassette	Check whether the supply spool rotates for a few secs if it does check CP1 for O/C if ok check voltage at pin 37 IC201: this should be in low state without tape inserted: if it is not in low state check up/down detector switches
JVC	HRD225EK	worn heads symptom	check following caps in psu - C9 47µ 35v, C16 47µ, C24 22µ
JVC	HRD230	E-E/Pback jumping & dist	Change 7 electrolytics near IC101- C123, C124, C130,C133, C134, C135, C137.
JVC	HRD230EK	No tape end stop	resolder pad on loading block underside of mech
JVC	HRD330	Capstan fast when play selected then shuts down	VC2023B servo chip
JVC	HRD445	E-E - ghosting	CF101 38.9WC filter in IF module faulty
JVC	HRD500EK	No e-e, pback (loop thro only) - mech functs ok	IC801 STR5490 & CP801 in 12v line o/c
JVC	HRD500EK	No record sound	IC1 LA7295 dry joints pins 15, 21 & 25
JVC	HRD510EK	Shuts down aft few secs - mode motor runs continuously	Mode motor drive belt slipping - replaced
JVC	HRD520	Ejects when still part loaded or int play	Mode switch
JVC	HRD530	NO TUNER	CHECK L13 FOR DRY JOINTS
JVC	HRD540	Blank raster int - on pback & rec	Dry joint C134
JVC	HRD540	Dead	No sw volts µPD75216ACW faulty
JVC	HRD540	Head sw point varies	3µ3 sm cap on lower head drum
JVC	HRD540	INT MISTRACKING OR TAPE DAMAGE	SLANT POLE SECURING PIN NOT PRESSED HOME FULLY OR MAIN LOADING LEVER AND CAM UNIT WORN
JVC	HRD540	Mode motor runs continously until sw off	Mode sw
JVC	HRD540	No display	C28 in psu 120µ 6.3v
JVC	HRD540	Poor sound rec /pback	C8 & C11 1µ (back LH side of main pcb)
JVC	HRD540	Severe tracking lines	Pole base loose - not letting pole reach fully loaded posn
JVC	HRD540	Some pre recs won't play	Back tension band replacement/adj
JVC	HRD540	Stops during pback & shuts down	Guide arm ass'y pin broken

JVC	HRD540	White bleeps on pback pic	Loose earthing screw at rear of head amp pcb or anti static arm out of posn.
JVC	HRD540 etc	Drum failure effect, or misaligned guide poles	Replace 3µ3 50v cap on drum motor
JVC	HRD540 etc	No display	C28 120mfd 6.3 volts in the PSU
JVC	HRD540 etc	Tape chews	Idler sluggish movement to build up of hardened grease - remove & clean/re-lub
JVC	HRD560	CAPSTAN SERVO NOT WORKING	IC401 HD49733NT
JVC	HRD560	NO PLAY	CP401 OC
JVC	HRD560EK	Only half a pic on pback - not heads	C6 3µ3 16v under head drum
JVC	HRD5755	Starts to load then unload in Play/Rec	Drum partially siezed - able to free it by fitting shim
JVC	HRD580	Dead	R21 47R 1/4w in psu o/c in -30v supply; Unsw 5.6v was 10v as Q8 2SC1740 on sub reg pcb eaky - used BC182L in lie;
JVC	HRD580	No display	CP1 F10 on timer/display pcb o/c
JVC	HRD600	Tape crinkling even after P Roller replacement	Black plastic guide distorts with age - replace or straighten using heat gun
JVC	HRD610	Dead	C12 2µ2 50v in psu pri
JVC	HRD610	Dead	C12 2µ2 50v in psu
JVC	HRD610	Only recs one prog in timer mode	Mode sw
JVC	HRD610	Timer record 1 event OK multiple event and set will switch off	Mode switch faulty
JVC	HRD640	Half pic covered in noise - Looks like misaligned guides	Check 3µ3 sm cap on drum pcb
JVC	HRD640EK	Servo fault in Pback	Replace 3.3uF/50v Capacitor which is located on the video drum motor
JVC	HRD660	Cassette stuck with tape wrapped around p roller	Idler gear sluggish & faulty - new type has 2 gears
JVC	HRD660EK	Half load arm jamming with master cam	Check control cam is seated properly in its spindle
JVC	HRD660EK	Mechs jammed	Split washer dropped off rack slider & jammed - check mechs for wear
JVC	HRD660EK	Search tune won't stop at sat rx - ok on tv chans	Dry joints in modulator
JVC	HRD660EK	Sound mutes int with blue screen esp when cold	Q7 (2SC1740) on the IF board - used BC546 in lieu
JVC	HRD700EK	Dead	R1 1R in psu o/c (caused by faulty STK5451?)
JVC	HRD720	IF TAPE REWOUND IS EJECTED IF NEW TAPE PUT IN IS EJECTED IF PART WOUND TAPE PUT IN IS OK	D611 ON SUB PANEL FITTED INCORRECTLY
JVC	HRD720	partially accept tape then shut down	replace mode sw, control cam & end sensors
JVC	HRD725 3V43	Fails to read reel tacho pulses	D428 (IN4148) leaky TU FG pulses low at pin 41 of IC202 its on a sub board
JVC	HRD7450	No tape movement	CP2 o/c - Q16 s/c
JVC	HRD750	Dead aft power cut	C14 1µ 50v on psu pri
JVC	HRD750	INT MAINS FUSE BLOWING OR INT FUNCTION FAULTS	SPARKING BETWEEN CHOPPER IC HEATSINK TAB AND CLOSE PCB FEEDING R1 REMOVE PCB FOIL BETWEEN THE TWO

JVC	HRD755	No play/rec - starts to lace up then unlaces	Drum not rotating due to being partially siezed - by dismantling & fitting shim managed to get it to work
JVC	HRD790	INT LOSS OF VIDEO SIGNALS HENCE NO RECORDED PICTURE NO SYNC	Q21 ON TUNER PCB INT OC
JVC	HRD790	Stops & turns off aft couple secs in play etc	PS2 TU reel sensor cleaned
JVC	HRD790EK	Dead	R2 & R3 330k hi res in PSU
JVC	HRD790EK	Dim display	C28 & C25 in psu hi esr
JVC	HRD790EK	poor pback of own recs - col only flash streaks OK on pback of good tapes	replace 3µ3 50v sm electrolytic on underside of head drum ass'y
JVC	HRD830	Capstan motor varying with no capstan lock if CTL pulses removed motor would settle down	C405 in servo circuit leaky
JVC	HRD830	Int loss of E-E	Q02 on Tuner if board (2SD1207)
JVC	HRD830	No NICAM sound - FM sound ok	CP1 N10 cct prot o/c due to M65109BSP internal s/c
JVC	HRD830	No tuning or E-E	Replace Q2 2SD1207(on small Tuner Pcb) with same or newer 2SD1207/ST
JVC	HRD860	Dead - 1A fuse o/c	Replaced s/c Q1 (2SC4517A) with a BUT11AF, o/c reservoir cap' C12 (100uF 400V) and the 1 amp fuse
JVC	HRD860	No FFwd - otherwise ok	Check reel sensors PS1 & PS2
JVC	HRD860	Won't accept tape	Loading motor duff
JVC	HRD860EK	Dim or no Display - mecks ok	C28 120µ 6.3v 105deg leaky
JVC	HRD910	Fails to play and damages tapes with head drum and capstan motors running slow	CP803 O/C is not shown in circuit diagram
JVC	HRD910	No functs, tape loads & display shows "-"	Child lock on - use R/C to bring vcr out of st/by
JVC	HRD910	No pback sound / pic (blank raster)	No pback fm @ TP206 due to no 5v at pin 1 CN202 (head pre-amp module) - Check IC102 M34225M2-110SP (5v at pin 8)
JVC	HRD910 etc	Poor tracking	3µ3 cap on lower drum pcb
JVC	HRD910EK	DRUM COMES UP OUT OF PHASE	REPLACE SMALL ELECTOLYTIC CAPACITOR 2.2MFD63V ON DRUM MOTOR PCB
JVC	HRD910EK	loads but won't play - no head rotation	CP803 600mA IC prot - not shown on cct
JVC	HRD960	dim display	C28 & C29
JVC	HRD960	Entry/exit guides not locating drum	Not brass bush - Worn plate ass'y & TU load arm gear - also replaced slide encoder, control cam & half load gear
JVC	HRD960	Int ejects tape when play/ffwd selected	C19 470u 25v leaking
JVC	HRD960	Sw off in Ffwd/Rew aft brief period	C19 in psu faulty
JVC	HRD960EK	Dead	C28 100µ 63v, C25 47µ 50v & CP2 N20
JVC	HRDD445	Int slack tape on eject	Mode switch
JVC	HRDX22	Capst speed varies & int col on Pback - rec ok	Check D14, capst bearings, C26 (22uF), C31 (470uF) and adjust of R805 (switched 5v).

JVC	HRDX22	Col varies, wowo on sound, pic pulse, tape counter erratic	C28 0µ47 in psu - chech other caps in psu also esp C24 & C31
JVC	HRDX22	Int stop	Dry joints CN601 conn on top pcb - pin 5 mainly
JVC	HRDX22	No control track pulses, pback col & counter fast	C24, C25 680µ & C32 470µ in psu
JVC	HRDX22	Poor capstan lock & flashing pback pic	sw 5v supply high at 5.9v - set at 5.3v with R805 at tp803
JVC	HRDX22EK	dead - no display	ICPN20 CP1 o/c also no sw 5v because L959 was o/c
JVC	HRDX22EK	faint white vertical line moves from l to r on pb	dry joints scart connector on main pcb
JVC	HRDX22EK	incorrect capstan speed	check 5.2v rail - in this case was 5.8v - adj to correct value
JVC	HRFC100	Cassette not fully accepted	PS2 sensor on top of cass housing dry joint
JVC	HRFC100	Power supply blown	Fit BUT11AF for Q1 and BC637 for Q2
JVC	HRFC100EK	won't erase prev recs - int	C5 4µ7 in erase cct
JVC	HRJ205	Dead except for couple of segments lit in display	CP1 in psu o/c - earth top bracket of cassette housing to lessen repeat failure
JVC	HRJ205	Dead with arrow or 3 dashes in display	Check CP1 & replace control cam PQ32413-1-6 & half load arm PQ48570B & realign
JVC	HRJ205	Display odd	CP1 N20 o/c, C36 470µ s/c & check C33 470µ all in psu
JVC	HRJ205	Int tape looping on eject	PU60622 - 1 2 slide switch (mode sw); PQ43555C-10 Plate Assy
JVC	HRJ205EK	dead	D40 12v zener s/c (in psu) - dry joints on Q2 in pri of psu
JVC	HRJ210	No e-e or pback pic via rf or scart	Choke L101 12v feed o/c on scart pcb
JVC	HRJ210	No play - no reel drive	clutch had lost its circlip & dropped down
JVC	HRJ210E	Dead aft lightening damage	Q1 2SC4517A (BUT11AX), Q2 2SC3616 (2SC3070), R11 1,2K, R8 0R39, R14 680Ohm, D7 27V Zener, D8, D6 1N4148, C21 0,1uF, D2, D4 in bridge rectifier, C12 2,2uF 50V
JVC	HRJ220	Dead	C860 22µ 50v, C868 47µ 16v, C806 2µ 50v
JVC	HRJ220	No E-E or Pback pic - mechs ok	No AL12v or SWD5v - Q859 2SD1302S o/c b-e
JVC	HRJ220	No tape movement apart from load/unload	P roller not contacting capstan - black plastic pinch roller cam cracked
JVC	HRJ220	Tape jammed	Replace change arm - lug broken that attaches to spring - CHS ref 74 Page 743 2000 cat
JVC	HRJ220	Won't accept or eject tape	Arm ass'y reqs replacement - lug breaks off preventing spring pulling arm across drive cog
JVC	HRJ220	Won't accept tape	Mode sw or change arm assy PQ46353A-1
JVC	HRJ220EK	WILL NOT EJECT	SPRING BROKEN OFF CHANGE ARM ITEM 74 JVC*PQ46353A2
JVC	HRJ225	Graunching noises aft eject & no tape end sensing	Centre led D610 type SIR-381SB3FM
JVC	HRJ225	Tape ejects	Replace 'cassette switch pin' PQ46359-2
JVC	HRJ225	When powered, machine shuffles & tries to eject without tape being in then powers down	OK when tape manually wound into machine & ok until power off again. Start (take up?) sensor faulty
JVC	HRJ225	Wont eject tapes but motor could be heard running	Spring anchor broken off change arm ass'y pt no PQ46353A-2 - also spring anchor broken from take up lever ass'y item 58 pt no PQ21686-1-3

JVC	HRJ225 etc	Jams in fully loaded posn - pinch roller not fully home	Caused by broken capstan lever ass'y item 50. New part made of metal due to the high stress placed on it
JVC	HRJ225EK	No accept or eject of cassette	Item 74 of exploded view - replace or repair with M3 nut + bolt
JVC	HRJ235EK	Dead aft storm	Q901 2SK1459 s/c - used 2SK1275; Q902 2SC3616 s/c - used BC4204; D901 bridge rect s/c
JVC	HRJ235EK	Pinch roller fails to engage in Play	Part 50 in exploded view reqs replacement The new cast metal part is numbered PQ46342C-9
JVC	HRJ245EK	SWITCHING TO STANDBY ON PLAY/RECORD	REPLACE TAKE UP CLUTCH JVC*PQ46323A1
JVC	HRJ246EK	Dead with pri HT present	R901, R902 220k o/c in pri PSU
JVC	HRJ248EE	no playback picture (sound OK), and no colour when recordings were played back on another machine.	IC101 LA7416 the head pre-amp chip.
JVC	HRJ255	Dead aft power cut	330k res near mains smoothing cap o/c
JVC	HRJ255	No capstan rotation	Motor faulty conns to coils - resoldered
JVC	HRJ255EK	Ejects tapes at random	CP3001 cct prot dry joints (below & to front of loading motor)
JVC	HRJ265	Dead - no display	D5301 MTZJ15A zener s/c
JVC	HRJ265	No E-E or Pback piv via RF or scart	No o/p pin 23 IC7151 - chip u/s
JVC	HRJ265EK	Dead	zener D5301 15v
JVC	HRJ268EU	Dead after power cut - mains fuse blown	Replaced D5301 15V Zener s/c, Q5101 2SK2632 s/c (replaced with BUZ91A), Q5102 2SD2146 s/c (replaced with 2SC3225), R5106 0,39Ohm o/c
JVC	HRJ270	Accepts tape but tape spillage when funct selected	reel gear assy (with a black plastic arm bit over the top) removed & cleaned
JVC	HRJ270	Int cuts out & tape drags	Idler arm replaced
JVC	HRJ270	Tries to eject when already in eject posn	Dry joints take up sensors
JVC	HRJ270EK	Dead with 330v across mains smoothing cap aft power cut	D5301 15v zener across sec 12v supply
JVC	HRJ270EK	Erratic take up, poor idler movement	Replace the Idler Arm Ass'y (LP40114-011B).
JVC	HRJ325	Capstan rotates too fast	IC401 BU2884S
JVC	HRJ400	Tape stuck & odd symbols displayed	CP1 N20 800mA o/c - caused by static discharge - fit earthing spring between case & mechs
JVC	HRJ410	GOING INTO STANDBY FROM PLAYBACK OR RECORD	REPLACE REEL SENSORS
JVC	HRJ410	int stop in rec or play	no supply reel fg pulses - PS1 faulty
JVC	HRJ420	Tape slack aft R/W & mechs jumps out of time	replace control plate & slider plate
JVC	HRJ420/425	Sound absent in pback - ok in e-e	Sound enters BA7797F IC1 but does not emerge - not chip but C1 22µ 10v was faulty tho checked ok
JVC	HRJ425	capst motor runs fast with grinding noise	IC401 BU2884S drive chip
JVC	HRJ425	No play as pinch roller not connecting with capstan	Lever ass'y item 80 cracked

JVC	HRJ425	Won't accept or eject cassette - plays ok if wound in manually	broken tension spring fixing on front lever plate, under the cassette housing (on the main deck).The spring is under the plate slightly to the left of centre
JVC	HRJ425EK	No mechs	Replace the broken take-up lever ass'y (PQ21686-1-3) and the very blackened mode switch (PU61432-1-2).
JVC	HRJ435	Dead	Q902 2SC3616 s/c
JVC	HRJ455EK	NO DRUM ROTATION	REPLACE CP4001 HRS*ICFN15
JVC	HRJ507MS	Powers up for a couple of secs then reverts to st/by	Check cprots - CP801 F20 o/c (measure volts on R803 13.5v - if missing check cp)
JVC	HRJ600	Brakes not working when stopped after FFwd/Rew	Replace main slider & supply spool brakes on underside of mechs - it may appear to be unworn
JVC	HRJ600	Dead	Check C12 on psu pri - but D35 16v zener was s/c in this case
JVC	HRJ600	Int failure to eject	Damaged teeth relay gear & drive arm ass'y - replace & mode sw
JVC	HRJ600	Very int locks up	C608 back up capacitor dry jointed
JVC	HRJ600	won't accept tape, faulty eject & noisy	replace deck assy - pivot pin loose - Pt no PQ11473B-10 £25.91
JVC	HRJ600	Wont eject fully	pin on main deck - relay arm bearing faulty - replace main deck!
JVC	HRJ600EK	No drum	CP40 N15 o/c - towards front of main pcb
JVC	HRJ610	Dead	C12, 38, 31, 41
JVC	HRJ610	Int blanks out in e-e & rec	Video muting tr being muted - C206 0µ1 50v low cap in IF unit
JVC	HRJ610EK	Blank screen in E-E - may be int	C206 0µ1 50v in IF/det unit
JVC	HRJ610EK	Dead	C12 2µ2 50v, C31 22µ 63v hi esr
JVC	HRJ610EK	Dead	C12 2µ2 50v in psu pri also check caps in psu sec
JVC	HRJ610EK	Dead after mains interruption	All elects in psu were hi esr
JVC	HRJ610EK	No E-E - pback ok	No 12v to IF sect, Q2 2SB810 & check all caps in unit for hi esr
JVC	HRJ615E	Dead	C12 2µ2 63v, C31 & C34 22µ 63v C38 0µ47 50v
JVC	HRJ625	Eject fails - capst motor whirring	Spring anchorage broken off change arm Item 74
JVC	HRJ625	Eject inop	Change arm ass'y broken peg releasing spring - SEME pt no VPAR7178
JVC	HRJ625	Int fails to load - when it happens, 1/2 load arm item 26 fails to reach its end	Load motor faulty
JVC	HRJ625	int slack tape on eject	cleaned mode sw
JVC	HRJ625	No capst drive	BU2884S driver chip
JVC	HRJ625	No RF o/p	Check RF out sw on rear of machine
JVC	HRJ625	NOT LOADING TAPES	IF CAPSTAN MOTOR NOT TURNING REPLACE IC401 (BU2884S)
JVC	HRJ625	PSU squealing	Mains cap 68µ 400v may be o/c & check other caps in psu
JVC	HRJ625	Wont accept tape	Change arm ass'y & mode sw
JVC	HRJ625 (M chassis)	Cuts out on playback.	Spindle of T/U reel slightly bent forward bent straight or replace the deck!
JVC	HRJ625EK	Mechs jammed	Replace control plate, mode sw, control cam & realign

JVC	HRJ635	Dead aft power cut	Replace C906 2µ2 50v, remove front panel & complete pcb/deck for access
JVC	HRJ635EK	Chews tapes and switches itself off	Replace the broken take-up lever ass'y (PQ21686-1-3) (the mounting post for the tension spring had snapped off). Fitted a new mode switch (PU61432-1-1).
JVC	HRJ635EK	Tries to eject even when in eject mode	Mode sw
JVC	HRJ645	Won't load - squeals & reverts to st/by	Dry joints tape end sensor (start)
JVC	HRJ645EK	Heartbeat sound on audio	Q951 2SD2061 Q952 2SD1819 surface mount ZD962 MA45051N (M) 5V1 zener D963 1SS133 C962 .001MF/50 volts surface mount C963/C971 both electrolytics one is 100MF/10 volts the other is 220 MF/10 volts
JVC	HRJ655	Whistle from psu then dead	D5301 15v zener s/c
JVC	HRJ655EK	Brakes not releasing supply spool when tape loading	Actuator levers had jumped over each other. Supply reel has its brake nearest front
JVC	HRJ655EK	Erratic mechs - int shuts down	mode sw
JVC	HRJ660	Int chews tapes	Replace item 102 idler lever LP30236-002B (main cause), item 89 idler arm ass'y LP40114-006B, item 106 rotary encoder QSW0554-003
JVC	HRJ660	No tape loading around head & only 3/4 eject cassette if loaded by hand	Rec prot sw plastic lever was displaced
JVC	HRJ665	Dead	D5301 15v zener sec of psu s/c
JVC	HRJ665	Dead with ticking	D5301 15v zener s/c
JVC	HRJ665	Int dead	dry joints DS207
JVC	HRJ665	Won't accept/eject tape - ok if manually loaded	Rec tab sw (also acts as momentarily as cass in/out sensor) plastic operating lever become unclicked - refit
JVC	HRJ668EU	Dead with mains fuse blown	Replace D5301 15V Zener & Q5101 2SK2632 Fitted BUZ 80 & insul in lieu
JVC	HRJ670	Dead with 1.6A fuse blown	Q5102 2SD2144S split, chopper FET Q5101 2SK2632-CB14 s/c, R5106 0R39 1w o/c. Also replace opto PC5101 ON3171 & C5104 1µ 50v
JVC	HRJ670	Dead with mains fuse blown	Q5101 2SK2632, R5106 0R39 1W, part number QRT01DJ-R39X, Q5102 2SD2144S/UV, C5006 68u400vr
JVC	HRJ670	Int slack tape on eject	Idler arm as'y LP40114-008A & idler lever B LP30236-002B
JVC	HRJ680	Dead aft power cut	D5301 zener in 12v supply s/c
JVC	HRJ680EK	Dead after power cut	Input fuse blackened, bridge rectifier s/c, 2SK2632 (used 2SK2632 in lieu)mosfet s/c, Q5102 2SD2144 o/c, R5106 0R39 1W o/c, D5301 15V zener in sec s/c & opto coupler, chopper trfmr shorted pri turns
JVC	HRJ695EK	Brief burst from psu at sw on then dead	D5301 15v zener s/c in psu
JVC	HRJ715	Dead aft power cut	C12
JVC	HRJ737	Rec/Pback pic rolls & overloaded - ok on e-e	It was the heads - like a crack or chip, not worn.
JVC	HRJ755	Dead	R5102 (330k) was o/c

JVC	HRJ755EK	Won't accept tape	top plate item 274 come adrfift due to weak side clips - reqs lh side holder 22007MZ & rh side holder 2207PA CHS
JVC	HRJ825EK	Audio dist on E-E & Pback	C852 (22mfd, 50v) in psu hi esr & check for dry joint on it
JVC	HRJ825EK	Sound dist with hum in e-e & rec thro' scart/phonos	C858 and C860 both 22uf 63V in the PSU
JVC	HRS4700EK	Dead	R15 47R 1/4w in psu
JVC	HRS5800	Complete failure to operate no clock display	R15 (22ohm) o/c
JVC	HRS5800EK	Dead	C14 6.4v hi esr
JVC	HRS5800EK	Display only - won't sw on via front controls	Stuck in childlock - sw on using r/c handset
JVC	HRS5900	Int sw off	Replacing both end sensors & reel sensors cured
JVC	HRS6600	Dead after mains cut	Chopper Tr 2SK2632 s/c, D5301 15v zener s/c & replace C5104 in psu pri
JVC	HRS6800	one head faulty symptom	replace lower drum - IC cause of problem but is not available separately
JVC	HRS6800	Snowy pback with line across	3µ3 sm cap on drum motor
JVC	HRS7000	Dead	C2 2µ2 in psu pri (hard to access due to being encased in metal box)
JVC	HRS7000	Dead	C2 2.2uF 50V, C51100uF 10V, C58 10uF 50v
JVC	HRS7000	Dead after being unplugged	C2 2µ2 63v o/c in psu
JVC	HRS7000	Patt & unstable sync/loss of col in pback & E-E	C37 10u 16v for sync crushing, C5 4u7 25v & C26 1u 50v for patterning, also check C91/92 0u47 50v
JVC	HRS7000	Venetian blind effect in Pback & E-E	Check caps inDigi pcb esp C37 - C12, 330uF, read 80uF , C22, 330uF, read 80uF, C3, 100uF, " " 91uF, C5, 4u7 " " 0u65uF, C26, 1uF, " " 0u47uF, C37, 10uF, " " 0u89uF
JVC	HRS7000	Venetian blind effect on E-E & Pback	Check caps in Digi panel esp red ones
JVC	HRS7000EK	Dead	Check C2 2µ2 50v & C58 10µ 50v on psu pri, also C59 & 60 22µ 63v on sec of psu
JVC	HRS7000EK	Dead with psu ticking	C2 2u2F 63V 105C; C60 22uF 63V 105C; C59 22uF 63V 105C; C58 10uF 63V 105C
JVC	HRS7500EK	Jammed with cassette inside & broken white plastic bit dropped out	It was from the large slider underneath the mech.The part number is LP10080-002E.
JVC	HRS7500EK	Rewind noisey	Replace "direct gear" (item 63) (LP40122-001A) whose upper teeth had become worn & chewed up
JVC	HRS9400	Does not record autowide screen from AV2	mod kit available
JVC	HRS9400	Sw to st/by aft few secs	CP801 supply to DD motor o/c
JVC	HRS9500	Brakes ineffective	Main supply brake assy LP40110.002H; & take up LP40111-002C
JVC	HRS9600	Dead - pri HT present	Replace R5101 and R5102 both 330K in PSU
JVC	HRS9700	Noisy still pic	Adj exit guide1/3 turn clockwise
JVC	HRXV1	R/C inop	hold down pr+ & play keys(on machine)until display goes blank,release keys & wait for auto setup to finish.
JVC	HRXV1EK	Int pic break up - like dirty/worn control head	Replace the audio/control head and/or the HA118217F control chip (IC101).

JVC	J210	Dead - CP1 o/c	check/replace elects in psu & Q31 2SC1740 (used BC337 in lieu)
JVC	SR330	Chews tape	Idler gear assy Part No PU 60618-1-3
JVC	V856	No drum rotation	No lt supply to drum as CP4001 N15 cct prot o/c
LG	AC2001	To adj RF mod	put VCR in stby -hold PRG+ and PRG- on the front pannel for 4 sec untill CH22 appears on the display-press PRG+ or PRG- to change the channel number-press POWER to store
LG	AF999NI	Shuts down in FFwd/Rew	Reel drive clutch internal claws broken - pt no 4265R-0002A
LG	BC969i	Dead	D106 1N5822 Schottky diode in psu
LG	BC999N1	Dead - pri HT present	C116 (1000MFD 16V 105degree) the reservoir cap for the 5.4V line
LG	BD2681 Aiwa D33	Cassette stuck - back tension lever pin missing	Replaced Arm assembly tension: GS4261R-0018A @ 3.89 EX VAT Lever tension: GS4510R-0022A @ 3.39 EX VAT
LG	K1-20U72X	No playback sound - E-E & TV sound ok	IC401 BA7797
LG	KE14U43	Buzz on pback only	Change C358 on vid panel from 0µ022 to 0µ33 (pin 65 IC300). C607 to 100µ & C603 to 56nF on TV board
LG	KE14U73	Rec not erasing prev soundtrack	Q304, T300 & C302/5/6 & 7
LG	LGPW9401	Dead - no functs or display	CP19 1000uF 10V, CP17 47uF 50VW, CP21 47uF 50VW, CP25 100uF, CP11 33uF 25VW
LG	LV800	Buzz on pback hi fi sound on mono tapes	IC801 TDA9605H
LG	N2391	Clock erratic - Gets its signal from Txt	In poor signal areas can be unreliable - add 1N4148 in posn D622 which disables auto clock set
LG	N309i	Clock erratic & Video plus int	PDC upsets micro - disable pdc by adding diode in posn D622 on front pcb
LG	N311	Loading slow & may stop halfway, drum also stalls	CP22 470UF CP18 470UF both in PSU
LG	P4341	weak E-E present in pback/search/still	CP19 1000µ 10v in psu
LG	PW9041	Display has all symbols lit	CP19 1000µ 10v in psu
LG	PW904i	Sound in pback dist & corrupt display at sw on	Check electrolytics in psu
LG	RC7001	E-E signal ragged - ok on pback & rec via scart	AGC decoupling capacitor C707 4µ7 50v from pin 4 of IC701 showed very high ESR.
LG	RC700i	E-E pic ragged - scart & pback ok	C707 4µ7 50v con to pin 4 IC701 hi esr
LG	S11F	Cassette housing hunts back & fro then off	DJ"S on the end sensors / centre tx diode & check deflection mirrors on side of carriage mech for cleanliness
LG	S909	Dead	5.3v o/p low at 5.1v (should be 6v) - CP12 & 13 1000µ low cap, also replaced CP06 33µ 25v
LG	S909NI	Dead appearance but psu running	5v supply had ripple - CP12 & 13 1000µ
LG	T163I	Sound in E-E & Pback low	Dry joint L402 in supply to pin 11 BA7797 IC401
LG	T263i	Slack tape on eject	Idler arm ass'y (item 072)

LG	W201	To set RF o/p freq	In power off mode with display on press Prog up & Prog down buttons together for 5 secs until "RF-CHnn" shows. Press Up/down buttons to change chan.
LG	W209i	Erase int	Change C403 from 0.022µ to 0.015µ
LG	W906	When operated goes into st/by after capst rev shuffle	F106 N20 cct prot on main pcb under mechs o/c
LG	W9061	Modulator adj	In st/by hold chan up & down buttons on vcr for 4 seconds until display changes to UHF chan no. (Default = Ch22) Using chan buttons adj to req freq then press st/by to bring vcr on & store new freq.
LG	W9061	RF setup	put machine into stby then hold down the Chan+and - buttons together until CH22 appears in the display then use Chan +/- keys to alter o/p freq, then press power button to store.
LG	W9311	No action - no LED lit at sw on - comes on when re-pressed	F106 IC prot o/c under RH side of deck
LG	W9311	RF output adjust	Put vcr into sleep mode (press st/by twice) wait till the display fades then press P+ & P- together. Storing is automatic
LG	W931I	No mech functs tape stuck, in alarm mode "< >"	F106 N20 CP on main pcb o/c - beware of stray light when operating machine with cover removed
Lloyds	L444 (Sharp)	"00" in display only with flickering & no functs	3300µ 25v cap in psu
Logik	VR945	Dead - no 5v to micro pin 32	D515 on main pcb going high res
Logik	VR950	Hum from PSU in Rec, Play & E-E	C7 2200µ 63v
Logik	VR955	No col in Pback & e-e missing	W2 link on psu feeding unreg 18v had corroded thro
Logik	VR960	Dead	STK5332
Logik	VR960	Display lights but no actions	ICP201 oc
Logik	VR960	No mech functs - clock ok	IC6101 LA6358
Logik	VR960	Pulling pic on pback	Entry guide pole adj
Logik	VR960	Wont switch on or off	Q506 2SD734
Matsui	TV161	control track problem noise band every 10sec	one of phases on drum motor odd - res check proved 1 coil o/c
Matsui	TVR141	E-E no sound	poor joints on the main pcb in the video section
Matsui	TVR141	Pback slow	excess back tension - clean back tens band and supply reel
Matsui	TVR141	tracking bars, slow sound on pback	ripple on AT5.6v line - C523 100µ 16v on tv chassis
Matsui	TVR161W	No Drum rotation	Dry joints on deck connector CP1001 also clean mode switch with fibre pen.
Matsui	TVR162	Noise band 1" high at bottom of pic	Check guide arm mountings - tend to be flimsy and break
Matsui	TVR180	Head Switching point adj (disturbance at bottom of pic)	Play a known good test tape, Hold the volume down on the set and press number 3 on the handset - it should "sort itself out"
Matsui	TVR180	Stuck in st/by	Get pre-prog EEPROM 24C08 from Grandata
Matsui	TVR185	Drum speed erratic, sometimes stopping	resolder socket pins on drum motor pcb, some used as print through links for double sided pcb

Matsui	V9000	Dead	replace C13 (47uF) C11 & C12 (1000uF) in psu
Matsui	VCP550	Capstan not turning unless helped	Motor faulty £29.60 from CPC
Matsui	VCP550	Fails to lace up fully	Damaged tooth on gear pinch lift ass'y WVE 881001
Matsui	VP9301	No e-e signals	R6035 33k in tuning volts filter o/c
Matsui	VP9301	Playback slow/int - cuts out on Rew	Capstan Pulley cracked & slipping
Matsui	VP9401	Dead - F502 o/c	When replaced, powers up but no mechs - IC1004 load motor drive chip overheating - reqs replacement, also check ICP051 & D16
Matsui	VP9401	Dead - no display	D16 s/c
Matsui	VP9401	No pic e-e or pback thro rf or scart (sound ok)	Q4015 buffer amp 2SA1037K sm o/c b-e
Matsui	VP9401	Won't accept tapes	Load motor inactive due to its drive chip u/s BA6886
Matsui	VP9405	Accepts tape then immediately ejects it	Strip & clean mode sw
Matsui	VP9405	Adjusting RF o/p	Hold power button for 5 secs from st/by until "OUT CH **" appears - reset with chan up/down buttons
Matsui	VP9405	Dead	R519 470k o/c
Matsui	VP9405	Loses sound on e-e, loses col/overloading on pback when heated - ok when first tried	TA1232N chip
Matsui	VP9405	No Ffwd/Rew & int mech lock up	Mode sw
Matsui	VP9405	RF modulator adjustment	With vcr sw on press st/by until display shows test signal. Use "+" & "-" buttons to alter rf as shown in display. Press st/by again until display shows clock again
Matsui	VP9405	Shuts down aft 5 secs in any mode	Reel sensor beneath take up spool u/s
Matsui	VP9405	Slow rewind with clunks	Supply clutch assy
Matsui	VP9405	Tape stuck - plays back fast then stops	Capstan motor
Matsui	VP9405	to change mod freq	hold power on button for 5 secs. Chan appears - use chan+/- to change freq then back to st/by to store
Matsui	VP9405	wont accept tape - goes in so far then sw to st/by	capstan motor faulty - available from Curry's Partmaster £17.25
Matsui	VP9407A	Disabling child lock	press & hold for 4 secs the CH+ & OTR buttons
Matsui	VP9407A	RF O/P switching	To enable, hold "power" button on vcr until display flashes off, then select RF o/p with chan down button on front
Matsui	VP9408	Code lost- in protect mode - to operate	Hold CH+ and OTR buttons for 4 seconds.
Matsui	VP9409	Int stops & reverts to st/by whilst in play	Cassette not being fully taken down so T Up reel stops. Damaged RH side plate (NLA)
Matsui	VP9501	Int mech functs, int eject, head drum etc	clean mode sw
Matsui	VP9501	Mechs int jams	Check mode sw
Matsui	VP9501	Tape crinkles at top edge	Replace back tension arm & check setting

Matsui	VP9504	When Play selected, loads tape then sits there motionless for a few secs before turning off - same with eject	Mode switch cleaned
Matsui	VP9505	Ejects some tapes as soon as they are inserted	Lift Assy part no HOUS471 fitted as old one didn't go down far enough to operate cass in sw
Matsui	VP9506	Band at bottom of pback pic	Check head sw
Matsui	VP9506	To disable pin no.	Press "Ch up" & "OTR" for 4 secs on vcr front
Matsui	VP9601	Dead	D514 (D2100 003) in psu sec s/c - used RGP15J in lieu
Matsui	VP9601	Goes off tune when rec selected	C518 4µ7 50v in 30v line on sec psu
Matsui	VP9601 Mk2	Chews tapes - no drum spin when tape inserted Supply spool keeps on running aft eject until m/c sw off	Clean mode sw and re-align mechs
Matsui	VP9601N	Cuts out from cold, no tune/store, no pback pic (like dirty heads)	C514 330µ 16v
Matsui	VP9601N	Dead or squeaking from psu	C514 330µ 16v
Matsui	VP9601N	Drifts off tune when rec or eject operated	C518 4µ7 in 33v rail o/c
Matsui	VP9601N	Int loading, ejects randomly after loading & shutdown etc	Check/replace electrolytics on PSU secondary
Matsui	VP9606	RF chan setting	From standby mode, hold power button for about 5 seconds, CH will appear in display, use channel up down buttons to adjust and back to standby to store
Matsui	VP9607A	To deactivate childlock when asked for PIN No.	press ch up & otr for 4 seconds
Matsui	VPA9401	Int stops - take up reel stops	replace take up clutch spool, item 364 CHS order code 14003KH £2.59
Matsui	VPA9401	Mechs jammed	cass housing out of time by 2 teeth (line up dots) & had damaged teeth. Caused by tension springs on housing weak & not gripping cassette
Matsui	VPA9401A	Dead - no display	CP ICP501 o/c
Matsui	VR1600 VX880 VXL4	SLOW DRUM ROTATION THEN STALLS	IC01 BU2716S
Matsui	VR3400	INT LOSS PB LUMA	R52 ON LUMA PCB
Matsui	VS888	Dead - no op or display	N Pcont 5 or 12v No osc from display micro front panel Xin or Xout pins 28 & 29. TC601 trimmer u/s
Matsui	VS888	No op light or mechs - display lit inc chan no.	No RF o/p low Pcont 5v & 12v - STK5342 chip faulty
Matsui	VX1000	Cassette jams halfway in when inserting	Cassette flap opening lever jamming - filed the corner off the slot it operates in
Matsui	VX1000	Playback has tracking lines	Lower drum worn - replaced
Matsui	VX1000	Playback slow or stopping	Has excess back tension due to brakes not fully releasing - Item 334 CHS has clip broken off & rides up
Matsui	VX1000	Runs slow in playback	Lub dry capstan bearing
Matsui	VX1100	Chews tapes - slack tape on eject	Lost part of felt on supply brake band
Matsui	VX1100	Dim display, reluctant to load & hum bar	C505/504 100u 100v & C509 hi esr

Matsui	VX1100	int front loading	mode sw or lighthouse ir led
Matsui	VX1100	No capstan lock	Dry joints edge conn plug between ACE head & main pcb
Matsui	VX1100	No eject aft working on deck	Check wires to solenoid
Matsui	VX1100	No rewind	Replace the 2 clutches
Matsui	VX1105	Dead after coin dropped inside	If D516 GMA-02 in PSU secondary is s/c (-30V supply to the Micro), then in most cases the Micro will be damaged as well.
Matsui	VX1105	int failed to load a tape	clean mode sw
Matsui	VX1105	loads & then ejects	check end sensors
Matsui	VX1105	Refuse to accept cassette	Crack in rh frame of cass housing & mode sw
Matsui	VX1105	Tape creasing	Retainer clips on TU & Supply guide poles slip down & don't mate with V blocks - glue back on
Matsui	VX1105	Tries to load without cassette in - play ok	Mechs mistimed
Matsui	VX1105	Won't accept tape & no end sensing	Lighthouse LED replaced
Matsui	VX1106	No e-e or Menu via rf or scart, mechanical functions ok	IC502 (TA7810S) 10v reg no o/p front rhs of psu.
Matsui	VX1107	Security code reset	press ch up and otr on front of vcr for a few seconds.
Matsui	VX1107A	Dead, no display	Q503,[2SD734] O/C., R506, [220k,1/2w] O/C. If you find R506, ok, check the S/M R518,56k, this is in series with R506
Matsui	VX1107A	No display	C652,[0.1mF) could be leaky.
Matsui	VX1107A	No E-E, test or pback - TV loop thro ok	Modulator faulty
Matsui	VX1108	Child lock removal	hold record and channel+ for several seconds.
Matsui	VX2000	No video o/p from RF mod (test sig ok)	PF4201 filter o/c - feeds base of buffer tr which feeds mod
Matsui	VX2500	No remote operation	Try pressing reset in battery cover on remote
Matsui	VX2500	POWER SUPPLY STUCK IN STBY	QO7 OC
Matsui	VX2700	NO CTL PULSES OR NO SOUND	AUDIO CTL HEAD OC
Matsui	VX3000	Head & capst rotate aft eject	Mode sw
Matsui	VX3000	Int lum rec signal	R52 on YC pcb int o/c
Matsui	VX3000	Int stop when in play - tape remains laced	Mode sw
Matsui	VX3000	Int tape speed with noise bars	Mode sw
Matsui	VX3000	Loading motor runs cont	BA6247 IC
Matsui	VX3000	Loads but no fwd motion	Mode sw
Matsui	VX3000	No eject - cassette comes 1/2 way out then goes back in	Build up of hard grease on lever driven by main cam to carriage drive
Matsui	VX3000	Pulling/rolling e-e	C17 0µ1 50v
Matsui	VX3000	Tape unlaces and ejects aft rev search	Mode sw
Matsui	VX500	Accepts tape then ejects it	Safety tab rec sw broken & fouling cass down sw on main deck
Matsui	VX600	F625 1.25A fuse blown	Rating too near borderline - fit 1.6A fuse

Matsui	VX6000	Won't accept tape & no end sensing	Pin on loading gears broken off due to someone 'removing' tape- repaired by fitting smal nut & bolt in place of pin
Matsui	VX6600	Int stop & no take up - wont restart from pause	Capstan bearing worn
Matsui	VX6600	Rec pic just a "mass of lines" - sound ok	Adj FM carrier pot VR4001 on YC pcb
Matsui	VX6600	Snowy pic - low gain e-e	Q04 2SC3000 s/c b-e
Matsui	VX6600A	Tension arm jams on load/unload	Straighten loading lever under deck and file a piece off to allow tension arm to move further
Matsui	VX735A	Stops & Starts in play - jerky every coulpe of secs	Capst drive chip gets very hot due to tight bearings - clean & lub
Matsui	VX755A	No op light or functs	No 5v STK5332 pin 1 - chip faulty
Matsui	VX765	Stuck in LP mode	Check pin 40 OEC9009 - no cont pulses. Replace C31 & 32 in control path & fit screened lead from ctl head to main PCA
Matsui	VX800	Crinkling bottom edge of tape	Pinch roller ass'y changed - lever bent
Matsui	VX800A	int or no record pic	dry joints on lum sub module or connectors
Matsui	VX820	Dead - no display	Q02 2SD1207 on main pcb o/c - used TIP31C in lieu
Matsui	VX820	No capstan drive	No unreg 16v at pin 6 CD2001 capst mot plug. ICP201 o/c
Matsui	VX820	No functs - display ok	Q2502 12v reg & STK5332
Matsui	VX820	No op or display	Q02 2SD1207 12v reg overheated - replacement fitted - used TIP31A on separate heatsink (runs hot)
Matsui	VX880	No Play	Limiter post spindle had dropped out - replace or fit small nut/bolt in place of spindle
Matsui	VX880	SLOW DRUM ROTATION THEN STALLS	IC01 BU2716S
Matsui	VXA110	mech jammed - capstan motor squeels	left hand clutch assy fallen apart
Matsui	VXA1100	Back tension arm jams against supply loading arm on eject	Broken operating rod under deck
Matsui	VXA1100	Capstan slow/graunching noise	Replacing C528 100µ 16v & C1029 100µ 25v slightly hi esr did not cure it - replacement of capstan motor from a scrapper did
Matsui	VXA1100	Chews tape in ffwd/rew & eject	Supply reel clutch fallen apart - reassemble & refit locking washer - remove bottom first to gain access
Matsui	VXA1100	Dead - fuse blown	Q503 2SC4517 s/c; Q502 2SC4204 s/c; D507 1SS132 s/c (fast switching diode 30V 150mA; 1MHz, I used 1N4148); D512 11EQS04 s/c (schottky barrier diode 40V 1A, I used AK04); D517 18V 0.5W zener s/c; D523 18V 0.5W zener s/c; ICP501 1.6A fuse link o/c; To be on the safe side, I also replaced Q511 opto TLP621(GR)
Matsui	VXA1100	Int no eject - powers down when requested	Check posn of brake pads hasn't moved
Matsui	VXA1100	No play due to sticking half load arm	Tighten loose rh capst motor screw - bracket fouling arm
Matsui	VXA1100A	Mechs jammed	Back tension lever jamming it - plastic plate assy under deck cracked and metal pin that sits in groove had come out

Matsui	VXA110S	overbright pic or other lum problem	replace IC4001 & 4002
Memorex Sanyo	VR1950	Have to press rewind or fast fwd 2/3 times to work , clutch not engaging as it should	Mode switch us
Mitsubishi	B srs M srs USING F0 DECK	DEAD NO CLOCK TAPE SYMBOL RUNNING WITH NO TAPE IN CUTTING OUT ON SEARCH	CHECK STBY 5v REG Q971 ON UNDERSIDE OF DECK Pt No260P630010
Mitsubishi	H750B	No start up from cold then patt	C9A3 1000µ 10v in psu
MITSUBISHI	HC761C	NO COLOUR ON PLAYBACK	UNIT COULD BE IN NTSC MODE TO RESET PUT UNIT TO CLOCK SET AND HOLD COUNTER RESET ON REMOTE FOR 10 SECS
Mitsubishi	HR304	PLAY PICTURE HAS HERRINGBONE PATTERNING ON IT INT	CLEAN GLUE OFF HEAD AMP IC AND CLEAN PCB EARTHING SCREW
Mitsubishi	HS303	DRUM HUNTS IN PB	TWEAK VR4A0 CAREFULLY
Mitsubishi	HS347	No functions No display	Q9A0 S/C
MITSUBISHI	HS520V	DEAD	REPLACE R981 IN POWER SUPPLY 6.8 OHM
Mitsubishi	HS520V	Dead	Resistor 2R7 feeding 5v reg o/c
Mitsubishi	HS520V	Int accepts tape or not fully ejecting	Mode switch
Mitsubishi	HS521V	No rec colour	Pin 19 plug GM on main pcb from deck bad conn
Mitsubishi	HS521V	Poor Pback - looks like worn heads	Head amp chip IC201 BA7184S duff
Mitsubishi	HS-531	Starts to accept tape then ejects - int	Mode sw - make sure you mark posn of old one before removal
Mitsubishi	HS541	No Playback colour on other machines LP tapes own LP tapes OK , all SP tapes OK . This machines LP tapes have no colour when played on other machines , SP tapes OK . Poor still pictures (should be noise free has 4 heads)	Dry joint on pin 19 plug GM on head amp pcb (HA-SW pulse)
Mitsubishi	HS5424	Loading & error faults	Check/replace all elects in psu
Mitsubishi	HS5424E	Shuts down when tape inserted - display ok	47µ 50v cap in psu near mains tfmr leakage
Mitsubishi	HS5425	Shuts down with "EEEE" in display when stopped fro Ffwd or Rew	C109 in psu o/c
Mitsubishi	HS550V	Dead	TR8 in PSU
Mitsubishi	HS550V	Dead but all o/p volts from psu present	Dry joints syscon chip IC5A0
Mitsubishi	HS550V	Int functs & tape damage	Mode sw
Mitsubishi	HS550V	No col rec - pback ok	Rec col under sig missing - crack in pcb between TP2N & R2D1
MITSUBISHI	HS550V(B)	ROW OF DOTS ON SCREEN	REPLACE CHARACTER GENERATOR IC501 MITS274P573010
Mitsubishi	HS600/700	Dim/No display	C9A3 & C9A1 1000µ caps near chopper tfmt hi esr
Mitsubishi	HS604V etc	Broken guide rails which are moulded to chassis	Cpt new chassis available for £27.50 + VAT
Mitsubishi	HS621	Dead / Int Dead - no display	C9A3 in power supply circuit. 1000uf 10v.
Mitsubishi	HS621VB	Dead or runs erratically	C910 4µ7 5v, C915 2µ2 50v, C9A3 1000µ 10v

Mitsubishi	HS621VB	Int eject	mod kit avilable from CHS
Mitsubishi	HS631	Dead - no display	C 943 1000mf u/s Next to SMPS tranny - tested ok
Mitsubishi	HS640V	Carriage RH lever broken & plastic guides on main deck cracked	Replacement deck available minus heads etc at reasonable cost
Mitsubishi	HS641	Poor playback - sync/noisy menus	L4A8 o/c
Mitsubishi	HS651	Cass housing jams at end of eject	FL arm/lever 621C2500010 warped and catching housing slider
Mitsubishi	HS651	No take up for 3 secs & tape tangle on eject	Check play/ffwd/rew clutch for damaged spring - if so replace ass'y
Mitsubishi	HS651V	Loops tape on eject	Mode sw
Mitsubishi	HS651V	Reverts to st/by aft few secs	Q903
Mitsubishi	HS721	Cut out in Pback, int accept tape from st/by, no tape remaining indicator etc	Mode operation diodes may be responsible - D5A9 & D5A1 - mod kit available
Mitsubishi	HS721	No Rec pic - sound ok	In record the head preamp IC [LA7411] had no voltage at pins 18 and 21 they should both be at 4.1V. The IC was running hot. Disconnecting the lower drum foil brought the pin voltages back correctly. Isolate components from pins 4 & 6 of head foil (not used)
MITSUBISHI	HS721V	E-E AUDIO CUTS OUT	R3A0 DRY JOINTED BECAUSE OF GLUE OVERFLOW
Mitsubishi	HS721-V-B	Lift Lever broken	Part nos - F/L arm L 515C001030, F/L Arm R 515C001040
Mitsubishi	HS740	Poor drum lock & unstable	Xtal X4A0 not osc (left of mains fuse)
Mitsubishi	HS740V	Dead	C9A3 1000uf 10v, and C9A4 330uf 10v (6.5v rail) low value;C9A6 470uf 10v was also high esr, this is the smoother on the rail that feeds the display heater.C910 4u7f 50v, & C915 2u2f 50v in psu pri
MITSUBISHI	HS740V	INT CUTTING OFF OR NOT ACCEPTING TAPE	FIT LED KIT MITSDIODLEKIT
Mitsubishi	HS740V HS600 HS700 HS7424	No auto-play, can record on prerecorded tapes, no tape remain ind.	D5C0. Kit of parts available - Mits. Pt. No. 007Z239010. SEME Pt. No. RK277G.
Mitsubishi	HS740V HS600 HS700 HS7424	No eject	D5B5 Kit of parts available - Mits. Pt. No. 007Z239010. SEME Pt. No. RK277G.
Mitsubishi	HS740V HS600 HS700 HS7424	Play cuts out after 5secs.	D5A9, also change R5B7 (100ohms). Kit of parts available - Mits. Pt. No. 007Z239010. SEME Pt. No. RK277G.

Mitsubishi	HS740V HS600 HS700 HS7424	Wont accept tape (except manually), no start or end sense	D5B4, also change R5B4 (82ohms). Kit of parts available - Mits. Pt. No. 007Z239010. SEME Pt. No. RK277G.
Mitsubishi	HS750	No timer or Videoplus record	Timer reset button on back of vcr may need resetting
MITSUBISHI	HS750	SLOW REWIND	FAULTY REEL SENSORS DIODELEKIT
Mitsubishi	HS750V	Dead - display flashes a few times then goes blank	C9A3 1000µ 10v in psu
Mitsubishi	HS750V	RF chan reset	Push and hold OKPROG and CHAN UP or CHAN DOWN, present rf chan can now be adj with CHAN UP/DOWN and power off to store.
Mitsubishi	HS750V etc	Dead - no display	C9A3 1000µ 10v in 6.5v line
Mitsubishi	HS750V etc	Dead/Patterning	C9A3 1000µ 10v in psu & check rest of caps if patterning
Mitsubishi	HS750V etc	Long time to come on aft timer rec - no display	C9A3 & C9A4 in psu
Mitsubishi	HS750V etc	Plays for 5 secs then ejects tape	Usually caused by light sensors D5A9 & can be obtained as a kit. Also can be syscon chip ICA50 M3818ME if data lines are ok & present at I/P to chip
Mitsubishi	HS751V	Patterning then dead when mains reapplied	C910 4µ7 50v, C915 2µ2 50v, C9A4 1000µ 10v hi esr
Mitsubishi	HS751VB	Dead - R9A 100R overheating	C9B1 sm s/c
Mitsubishi	HS761	No reverse operation of capstan motor	replace motor
Mitsubishi	HS761V	Dead	C9A3 1000µ in psu
MITSUBISHI	HS761V	NO REMOTE FUNCTIONS	CHECK A AND B CODES ARE MATCHED AS PER PAGE 17 OF INSTRUCTION BOOK
Mitsubishi	HS841V	"E5" error code displayed	Clean heads - If the E5 does not disappear go into clock settings and press counter reset for 10 seconds, by doing this you may have to re tune the channels.
Mitsubishi	HS841V	No display or functs	C9A3 1000µ 16v in psu
Mitsubishi	HS851V	"E5" flashing in display	dirty heads
Mitsubishi	HS851V	E4 message displayed	Means no reel action - reel sensor had become dislodged - repositioned & now ok
Mitsubishi	HS851V	Error codes	E1 - Loading motor lock in the load direction. E2 - Loading motor lock in the unload direction. E3 - Drum motor lock. E4 - Reel lock detection. E5 - Video envelope detection.
Mitsubishi	HS851V	Error messages E2 & 5 show	Loading arm jamming due to wayward piece of plastic under arm
Mitsubishi	HSB series	When tape is inserted and play selected will lace up but tape does not go forward	Half loading arm not retract fully so does not catch tape Felt pad has come adrift
Mitsubishi	HSB series	When tape is inserted and play selected will lace up but tape does not go forward	Half loading arm not retract fully so does not catch tape Felt pad has come adrift

Mitsubishi	HSB10	Looks like worn heads after replacement	Adj VR2A3 (Carr set), VR2A2 & VR2A1 (White/dark clip)
Mitsubishi	HSB10	No sound/pic in e-e - pback ok	No AGC volts to tuner pin - replaced C02 4µ7, R02 12k, R105 12k & resold conns in area
Mitsubishi	HSB12	accepts tape but sw off aft trying to play	felt brake pad from tension band fouls half load arm
Mitsubishi	HSB12	Capstan speed incorrect	check elects on servo & capstan pcb
Mitsubishi	HSB12	carriage continues to eject when out & no auto stop in rew	plays normally when manually wound in - lighthouse IR led faulty
Mitsubishi	HSB12	E-E pic poor/weak sync - pback ok	C2X2 10µ near booster module corner
Mitsubishi	HSB12	In preset mode stations can be tuned in but in normal mode they could not be obtained	Check voltages at pin 2 of EPROM chip -30V low check R904
Mitsubishi	HSB12	No rec or erase of old recs - no bias osc op	C333 10µ 50v on top panel
Mitsubishi	HSB12	No tracking in Pback, no counter in Pback/FFwd/Rew	Q4B1 JC501Q o/c, C4C4 47uF 16V leaky, IC4A0 BA2820S u/s
Mitsubishi	HSB12	poor pic/weak contrast via RF & scart	C2B4 10µ 50v low in value
Mitsubishi	HSB12	Pulling & dist pic on pback & E-E & int col	C2X 10µ 50v in tuner low cap
Mitsubishi	HSB12/27	No pback sound - e-e sound ok	VR311 preset 10k in audio stage fell apart
Mitsubishi	HSB16	Dead , no display . StBy 5v rail low \ missing .	R5K3 - 5R6 0. 5W fusible resistor OC \ high .
Mitsubishi	HSB16	Faulty tracking on Play .	Check CTL pulse on pin 26 IC4AO . Should be 2.5v P-P , if significantly lower replace IC4AO
Mitsubishi	HSB27	Hum bar on RF , Playback OK .	C2X2 10uF 50v OC .
Mitsubishi	HSB27	Int blue screen on pback - ctl pulses varying	Guide on right of pinch roller worn - rotate by 180 deg or replace
Mitsubishi	HSB27	No take up	replace idler
Mitsubishi	HSB27	Poor capst lock aft 1/2 hr	C4B8, c4a4, C4C4, all 47µ 16v & C4C3 100µ 16v. Check for 1v p-p on pin 26 of BU2821. Checked ok on meter
Mitsubishi	HSB27	Rewind & Forward Int when machine hot	Loading motor u/s
Mitsubishi	HSB27	Sound absent on rec - ok on pback & e-e	C327 33µ 16v bias osc supply decoupler
Mitsubishi	HSB29	Poor contrast/detail & int blue mute on pback	C204 & C284 10µ 50v on top pcb near IC2A0 BA7255BS chip
Mitsubishi	HSB30	Black streaks on peak white aft head change	Adj peak white clip VR2A2
Mitsubishi	HSB30	Blue screen in e-e mode	C104 0µ22 50v tant u/s
Mitsubishi	HSB30	No counter or capstan lock	Control head faulty
Mitsubishi	HSB31/41	Jammed in fully laced position	Replace Mode switch and lubricate all arms and gears
Mitsubishi	HSB32	DEAD NO 5v AT PIN 3 CONNECTOR PZ BUT REFERENCE VOLTAGE ON PIN 5 OF PZ	IC901 LA6324 US
Mitsubishi	HSB520 521	BLUE SCREEN COMES ON IN EE + PLAYBACK. PLAY PICTURE HAS A LINE 1/4 UP FROM BOTTOM OF PICTURE SOMETIMES INT.	C5B9 DRY JOINTED (IN CENTRE OF PCB NEXT TO Q5B6)
Mitsubishi	HSB82	faint picture with weak sync	C232 10mfd 16vSMC (back right of main pcb)
Mitsubishi	HSB82	Poor e-e & rec - improves when heated	dry joints in vis IF can at IF SAWF

Mitsubishi	HSB82	Poor pic in e-e and pback - sound ok	C232 sm 10µ in video signal path
Mitsubishi	HSB82	poor video pback & e-e	sm caps C210 47µ 16v, C232 10µ 16v
Mitsubishi	HSE82	Distorted video on playback and graphics	Replace C232 (10uf 25v) surface mounted cap.This cap is on the video panel behind the phono A/V in/out sockets at the rear.
Mitsubishi	HSM series	Cassette flap arm lever disengages from door assy	Fit felt pad Pt No 554D093010 to unit front in recess
Mitsubishi	HSM16	No clock display - ok otherwise	C905, 908 & 909 leaking but failed to cure - R904 o/c & D917 HZ30-2 s/c
Mitsubishi	HSM20	Tape damage - tape looping etc	Mode sw - replace, clean is not enough
Mitsubishi	HSM34	Dead psu running with st/by volts present	Main reset line held low as Q8A0 on timer pcb o/c - used BC546A in lieu
Mitsubishi	HSM37	fully laced & trying to lace some more	mode sw
Mitsubishi	HSM37	Jams int with tape inside	Mode sw
Mitsubishi	HSM37	Low audio on pback	Known problem - factory mod adds 1k res to bias but doesn't work!
Mitsubishi	HSM37B	Int jams/eject etc	Hardened grease on idler - strip, clean,regrease
Mitsubishi	HSM40V	Noisy rew	Clean & lub shaft of take up gear spool item C031
Mitsubishi	HSM40V	Slack tape on eject	Check mode sw & idler reel assy item C035
Mitsubishi	HSM40V	Wont load tape	Drive gears to loading arms lost teeth
Mitsubishi	HSM40VB	Timing keeps going out	Gear C-051 on main deck & Gears L-033 & L-029 on RH side of cass housing had stripped teeth CHS part code 44018
Mitsubishi	HSM45	playback unstable and appeared to be mistracking	Video heads, Control head and guides all clean guides not loose: Carriage not seating fully
Mitsubishi	HSM48	Horiz line across pback pic & no line lock in fwd search	Sus lower drum so uneconomical repair
Mitsubishi	HSM48V	Cass door flap jams tape - comes unhooked	Fix sticky backed felt pad inside door on opp side to flap spring
Mitsubishi	HSM48V	Int loss of o/p from RF modulator	Dry joints RF mod
MITSUBISHI	HSM48V	TAPE JAMMING INTERMITTENTLY	REPLACE DOOR ARM ASSY MITS622D230010
Mitsubishi	HSM48V	Tape trapped behind flap - very int	Add sticky back tape inside lifter channel
Mitsubishi	HSM50	Dirty head symptom - may be int	Check for dry joints at head amp conn & check panel earths
Mitsubishi	HSM50	To enable/disable child lock	Hold 'Data On Screen' button on remote for 10 secs, a 2nd press & hold clears it
Mitsubishi	HSM50V	snowy pback pic - can be int	lower drum earthing spring connections
Mitsubishi	HSM54	Loss of line lock in fwd search	Caused by lower drum wear - new drum = £180!
Mitsubishi	HSM54	No play - FF/RW OK	Pinch roller seized on shaft
Mitsubishi	HSM54	Tape edge damage	pinch roller worn
Mitsubishi	HSM54B/59B	No Ffwd/Rew	Dry joints on brake latching solenoid L570 (under deck at front)
Mitsubishi	HSM57	Laces up but head stops aft few secs	IC4A0 BU2835AS IC on main (servo) pcb
Mitsubishi	HSM58	Head loses lock (speeds up) in cue mode	Fit new head (not the lower drum)
Mitsubishi	HSM64V	won't accept tape	fitted diode-le-kit from SEME

Mitsubishi	HSM822V	Tape ejects after going in halfway then repeats trying to load again	Plastic shutter on rh side end sensor jamming mechs - replace shutter
Mitsubishi	HSMX1	Dead	resistors in 5v reg cct o/c
Mitsubishi	HSMX1	Goes to stop & sw off aft tape inserted	No drum flip-flop I/p to micro - ok from drum motor but no o/p from BU2820S servo chip - chip u/s
Mitsubishi	HSMX1	Won't fully lace up	hardened grease on p roller & helter-skelter gear
Mitsubishi	HSMX1B	Tape stuck in machine	Capstan pulley had split and dropped off motor - superglued back on
Mitsubishi	HSS5600	Locked up aft power cut	Press reset button thro' hole in back
Mitsubishi	M18 M38 ETC VIDEO PLUS	TO CHANGE VIDEO PLUS CHANNEL SETTINGS IE PUT SKY ON "5" NOT "L2"	KEY IN VCR PLUSCODE FOR SKY PROGRAMME PRESS DLY/WKLY USE JOG SHUTTLE TO CHANGE "L2" TO "5" REPEAT FOR ALL 8 LINES
Mitsubishi	M18 M38 M48	NO MENU JUST LINES	X501 17.7Mhz XTAL Pt No 285P084010
Mitsubishi	M27	Cassette jams on load/unload	second plastic washer under the idler pulley had moved down shaft - swapped with top one
Mitsubishi	MSM57	Machine laces up - drum stops aft few secs	IC4A0 BU2835AS IC servo (main) pcb
Mitsubishi	range	Cassette flap arm lever disengages from door assy	Fit felt pad Pt No 554D093010 to unit front in recess
Mitsubishi	VHR874E	Capstan motor int stops	Dry joints at motor connection
National	NVG500	Dead - D12 20v zener in psu blown	C12, 47mfd, 63V (Feeds into pin 1 of STRD 1806 from FB winding of chopper TX).
NEC	N895	Fuse F6 blows when play selected	C3 33µ 6v3 in 5v supply
NEC	N895	Goes into fast play mode when play selected - FFWD/Rew etc ok	- IC415 BA6305 mechacon servo chip faulty & check for o/c on board esp between pin 7 IC410 & jumper J64
NEC	N9033	Deck jams when going from play to stop	Intermediate gear under deck had tooth broken
NEC	N9077	shuts down after accepting tape	reel rotation fault- no black segments on reel for sensor to detect
Nikkai	J2	hum bar on e-e	C803 100µ 50v
Nikkai	VR3716	tape looping on eject	back tension band
Nokia	3722	Failure to accept a cassette or power up	D7001 O/C gradually discharging C7001 Back up Capacitor
Nokia	3722	Loop of tape left in unit after eject	Two possible causes Stiff capstan Motor or Faulty Mode switch
Nokia	3615UK	Mode sw replacement	Does not come separately - use Amstrad VCR400 version - its cheaper Pt no AM255444 from CPC
Nokia	VCR3785UK	Venetian blind effect on E-E - ok on Pback	C205 1µ 50v in tuner/IF module (by 6Mhz filters) o/c
Nokia	VR3761	Cuts out aft few secs in Play etc	reel sensors - tape counter done via ACE head
Nokia	VR3786	No rewind & slack tape on eject	Tension band stuck to supply reel
Nokia	VR3786	No scart sw when tape inserted	MM1117XF vid sw chip IC2202 on rear pcb
Nokia Daewoo	VR3615 V200	When going from play to stop chews tape up .	Idler assy twisted (VDC7456 Seme order code) also replace metal lever below idler assy as pin drops off .

Nordmende	V2000PU	Runs too fast in play/rec	was cured by a new cap motor (PU60892).
Orion	700VCR	No capstan rotation	OEC9011 IC faulty - pcb charred under it (expensive chip)
Orion	D1000	Odd functions	If after mains reset ok then check/change sensors on cass housing
Orion	D1094	switches between lp/sp in lp pback	dry joints ACE head pl/skt conns on main pcb
Orion	D1094	tape spools out in review	supply spool brake spring item 309 too much tension
Orion	D1094	won't accept a tape	load motor supply absent - BA6886 drive chip u/s & motor faulty - new motor resistance = 14R ; faulty motor reading = 8R5
Orion	D1096/D2096	Int stops, ejects tape & sw off	Check reel sensors Q1001 & 1006
Orion	D1097	RF adj	From st/by hold power button for 5 secs, CH appears in display, use chan up/down buttons to adj & back to st/by to store
Orion	D9600	Playback jumps/rolls - pre set tracking req	To adj , pback pre-rec tape & press 'tracking auto' on hset & 'play' on machine together. If ATR symbol goes adj is complete
Osaki	VCR33	E-E overloads - ok on pback	C719 1µ 50v in IF module
Osaki	VR410	Low/fluctuating sound in pback OK on pre-recs	C227 1µ 63v connected to pin 11 of preamp IC201 on audio/vid preamp
Panasonic	AG526	Accepts a tape but won't lace - no drum rotation	Capst pulsing, L2301 o/c on main pcb
Panasonic	AG5260	Blank screen with normal sound	No vid pin 28 IC3001 & supply at pin 6 (SW5V) low at 2.5v. Q6101 o/c
Panasonic	AG5260	Error 5 in display - pinch roller doesn't engage	Plastic locating pin on PR ass'y broken - new pr ass'y fitted
Panasonic	AG5700B	Various faults on this SVHS broadcast vcr	See VCR clinic Sept 99
Panasonic	AG7350	SVHS Pback unsync - OK on VHS	signal present at pin 5 into IC6 but no o/p - chip faulty, sub emphasis board replaced
Panasonic	AG8700	Various problems	Usually caused by sm caps - expect to replace up to 250 of them!
Panasonic	AGTL300	E05 displayed	Centre clutch ass'y had fallen apart - also check Capst motor, housing & bearings, reel sensors, & the pinch roller spindle
Panasonic	AG-TL300B/500B Time Lapse	intermittently lock up with "E-5" showing in the display.	centre clutch pt no VDC7544
Panasonic	Barcode reader	Poor or no operation	replace tx diode
Panasonic	D Deck	capstan motor speed faulty	faulty ctl pulses - C248 1µ
Panasonic	D Deck	drum motor hunts or runs fast	drum servo chip IC6387
Panasonic	D Deck	no capstan rotation - just vibrates	AN3821K IC2001
Panasonic	D Deck	no pback col	C8002 0.01µ - chroma signal at one side but not the other
Panasonic	D Deck	poor pback / no field sync	C306 10µ in lum pback path
Panasonic	D Deck	rolling pic in pback	tape crinkled on bottom edge also - p roller

Panasonic	D Deck	stations lost when returning to them after search/store	the -30v supply to MN1220 memory chip high at -57v. Q1101 & D11 in psu s/c
Panasonic	FS88B	Won't accept tape	Sticking eject button on control door
Panasonic	G Deck	dead no display - psu pulsing	C1045 47µ 10v on psu sub panel
Panasonic	G Deck	int capstan speed & stopping	capstan motor stator faulty
Panasonic	G deck	Laces up then jams & sw off	pinch roller plastic retainer split & jamming mechs
Panasonic	G deck	No Ffwd/Rew - other functs ok	small latch lever return spring dislocated (item 103)
Panasonic	G Deck	No play - rattles & no drive engagement	Check solenoid for lack of oomph
Panasonic	G Deck	STARTS TO LACE THEN UNLACES AND EJECTS	OC SOLENOID
Panasonic	G Deck	wont stop on chan in tuning mode	C3055 33µ 16v
Panasonic	G2 Deck	black horiz lines on white bground in playback	1H delay pack on sub lum pcb - check caps C3501, 3506, 3516, 3510
Panasonic	G2 Deck	e-e pic distorted	C3807 on Y-C separation board
Panasonic	Handset	No output from handset type VEQ1485	Replace 0.22F 5.5V backup cap which may be leaking. CPC code CA02489.
Panasonic	J20	Shuts down aft 20 secs in ffwd/rew aft mode sw replacement/timing	Check timing again!
Panasonic	K deck	Accepts tape then goes to rewind	Cap 0µ1 across Q6003 end sensor was leaky
Panasonic	K deck	attempts to pull cassette back in after eject	check cassette L.E.D. for dry joints
Panasonic	K deck	back tension arm jammed against lh load arm - won't accept tape	fit new back tension arm & check engagement with main mech sliding plate
Panasonic	K deck	Brakes stay on in play	little plastic tab broken off brake ass'y
Panasonic	K Deck	cassette flap won't open on eject	Binder cam dropped out of lh side slot. Maybe inside or pt no VFK2709
Panasonic	K deck	Cassette loads , tries to load tape then ejects	Plays ok if loaded manually - load motor drive chip faulty
Panasonic	K deck	Chews tape , supply reel stiff	Take up brake arm broken VXZ0313
Panasonic	K Deck	Damages tapes	Arm P5 bent
Panasonic	K deck	Error code "F03"	Incorrect mode operation
Panasonic	K deck	Error code "F04"	Incorrect phase alignment
Panasonic	K deck	Error code "F05"	Loss of reel drive
Panasonic	K deck	Error code "F06"	Loading motor
Panasonic	K deck	Error code "F09"	Means no serial clock transmission between IC6001 & IC7501
Panasonic	K deck	F03 or F04 shows in display	check loading motor coupling pt no VDP1434 or motor pt no VID12128 £11.95 CHS
Panasonic	K deck	Head only twitches when tape inserted	check 4 legged Hall effect device on top of head ass'y
Panasonic	K deck	Int fails to load or unload .	Plastic bush / shaft on loading motor split and slipping . PtNo VDP1434 .
Panasonic	K deck	Int jams in play mode with "03" displayed	Mode sw
Panasonic	K deck	Int tuning drift/loss of chan	Tuner unit or AFC chip IC7653
Panasonic	K deck	No display & head pins excess fast	Q1005 5v reg 2SD1996 o/c
Panasonic	K deck	No eject - code "F06"	load motor pulley cracked

Panasonic	K deck	ON CERTAIN PRERECORDED TAPES FAILS TO GO INTO FAST REWIND	CHANGE MICRO TO TYPE MN67434VRSH
Panasonic	K deck	Playback slow - damages tapes	reel brake not releasing - brake release mech broken pt no VX20313
Panasonic	K deck	Poor slow tracking & noise bars in slow/jog/pause	Capstan stator VEK5927
Panasonic	K Deck	refuses to fully take in cassette	split loading motor pulley
Panasonic	K deck	RUNS AS IF IN CUE MODE	XRA6439P CAPSTAN DRIVE IC
Panasonic	K deck	slack tape on eject	centre clutch ass'y VXP1409 weak
Panasonic	K deck	Slow rew esp 4hr tapes	Replace end sensors Q1501 & 2 PN205L
Panasonic	K deck	Slow tape loading, stopping b4 completion	Loading motor faulty
Panasonic	K Deck	Squeals from capstan motor in play/FFWD	If lub does not cure, try the upper bearing assembly VXD0140 (£2 plus vat), &/or rotor unit VXP1519 (£8.20 plus vat); plastic washers which are the oil seals part number VMX1927 (13p each plus vat) from Panasonic
Panasonic	K Deck	stops aft couple of secs in play	plastic cover on reel sensors not properly fitted
Panasonic	K Deck	Stops with code F03 or F06	Dry joint lighthouse led (give it a wiggle whilst playing open cassette)
Panasonic	K Deck	Tape crunched by descending p roller	Main lever VXL2307 cracked near P5 arm drive notch
Panasonic	K deck	TAPE IMMEDIATELY EJECTED	NO CAPSTAN ROTATION OR NO ROTATION SENSED
Panasonic	K deck	Tape loads then unloads	Check 12v supply either end L2003 feed to capst motor
Panasonic	K deck	Timing goes out	worn teeth on worm wheel ass'y between mode motor ass'y and main cam
Panasonic	K deck	Wont accept tape	Dry joints end sensors
Panasonic	K Deck	wont accept tape & reverts to st/by with "H01" displayed	code means no drum rotation - due to magnetic resistor on drum stator pcb part no HW-300A-CF - also can cause drum instability
Panasonic	K deck	Won't eject, goes into slow rew then F03 in display	Mode sw contacts to deck poor contact - cleaned
Panasonic	K deck NVSD220	No rew or rev search & damages tapes - P5 arm sticking	Main lever item 144 cracked VID11440 CHS £2.55
Panasonic	K mech AG5260	Error code E5	Caused by tension post P5 bent
Panasonic	K mech AG5260	Mono sound only	Checking audio RF carrier proved only 1 of the hi fi heads was working - replaced upper head drum
PANASONIC	KMECH	LINES DURING SEARCH OR PAUSE	REPLACE SUPPLY AND TAKE UP GUIDES PANAVXA5245KIT, PANAVXA5427KIT
PANASONIC	KMECH	LOSS OF SERVO LOCK ON SEARCH KNOCKING ON PLAY	ADJUST CAPSTAN FG HEAD
Panasonic	NV370	Clock and counter displays dim	Check -50V rail if low Replace C1104 (100UF) 63V
Panasonic	NV370	no display but function LED alight all the time	R1001 (0.39ohm) o/c sometimes D1002 (3.9V) zener can cause R1001 to go NOTE marked as R1 on PCB
Panasonic	NV370B	dead apart from slight glow from operate led	C1104 100µ 63v, C1105 47µ 63v, C1106 47µ 50v in psu & R1001 0R39 0.25w on main pcb

Panasonic	NV45	Dead with tape stuck inside	C1003 leaky
Panasonic	NV530B	Dead with chirp at power up	Check caps in psu esp C9 & C21/22/27
Panasonic	NV7000	stops aft 35 mins	capst slows down - if put in pause runs ok without sound. IC6403 overheating (4049) - replacement cured fault
Panasonic	NV730	Excess col sat on own recs	C5012 & C5013 1u 63v on head amp board
Panasonic	NV850	LEDs flash & buzzing	Check 2 x 3300µ caps in psu
Panasonic	NVD25	poor pb picture very snowy with black streaks	replace lower drum assembly
Panasonic	NVD48	Dead	Q3 & D12 s/c caused by C12 not reg also C19 o/c
Panasonic	NVD48	Dead - no display - clicking from psu	D12 s/c & STK5339A Volts on pins should be = 1=0, 2=5.1v, 3=5.8v, 4=7v, 5=22.9v, 7=7.3v, 8=14.3v
Panasonic	NVD48	Display only - reg 5v missing	Q2006 2SD1330 on main pcb o/c
Panasonic	NVD48	No sigs/tuning or PIP	45v line only 18v - IC7551 AN5043 overheating & faulty
Panasonic	NVD48	Patterning on E-E	C1019 33µ 10v
Panasonic	NVD48B	Dead - no display	D12 zener s/c; C12 47uF o/c; C19 330uF o/c; C34 100uF o/c; C33 100uF o/c C28 10uF o/c
Panasonic	NVD80	Dead	C1045 35v in psu
Panasonic	NVD80	Int dark/ragged e-e pic	Volts o/p from psu high - C1012 & C1039 47µ 16v low cap
Panasonic	NVD80	Int shut down whilst mech operation	Solenoid sticking - pt no VXA3735
Panasonic	NVD80	No display	No 33v feed - R1016 2R2 ½w o/c
Panasonic	NVD80	No pic e-e or pback	Q29 2SD1636 o/c on sub dig board
Panasonic	NVD80	Relay sounds like machine gun with display in sympathy with it	2 x 2200µ 18v caps near output socket faulty though read ok on esr meter
Panasonic	NVD80	VU meters unbalanced	One of the VU meters faulty display - pt no VEK3183
Panasonic	NVF55	No capstan servo lock , mechanism runs too fast	L2001 oc - no 12v to capstan stator
Panasonic	NVF55	No col rec/pback - ok on E-E	Hybrid IC302 VEHFH14D faulty (may be the sm caps)
Panasonic	NVF55	No Picture in E-E mode with no VU meter display	IC1701 faulty
Panasonic	NVF55	Patterning - col speckles in e-e	dry joints tuner
Panasonic	NVF55B	Blank raster in e-e & no VU display	IC1701 M660066FP AV sw & VU enabling chip u/s
Panasonic	NVF55B	Capst judders slowly when tape inserted	Earth pin 16 of capst dr chip - if speed now fast sus IC6001 sys/serv chip
PANASONIC	NVF55B	CAPSTAN AND DRUM MOTORS NOT RUNNING	REPLACE Q6008
Panasonic	NVF55B	DEAD	IC1102 SC
Panasonic	NVF55B	Dead	R1103 & R1133 220k sus
Panasonic	NVF55B	Dead	IC1102 S13120C s/c
Panasonic	NVF55B	Dead - no psu o/ps	When psu unplugged all o/ps twice normal - o/c print IC1103 earth pin
Panasonic	NVF55B	Dead - operate led dimly pulsing on/off	C11147mfd 63v in psu sec s/c also replace C1114 (leaking)
Panasonic	NVF55B	Ejects tape when offered more often than not	Check tension springs on top of housing
Panasonic	NVF55B	Mechs runs at full tilt	No FG sigs - L2001 12v filter o/c

Panasonic	NVF55B	No col with own recs	Check NTSC sw on front in correct posn
Panasonic	NVF55B	No normal or Nicam sound in e-e	Aud defeat line perm high - IC7001 M66006FP
Panasonic	NVF55B	No sound any mode	The -8v supply to audio pack missing - D1108 MA165 & C1112 56µ in psu
Panasonic	NVF55B	No tape counter	Half load arm had broken gear
Panasonic	NVF55B	Unstable pic with "E9" displayed (no ser data)	MN67431VREH sm sys/serv chip
Panasonic	NVF55B	Won't stop in search tuning	D6701 sm MA151WK on demod pack o/c
Panasonic	NVF65	Appears dead for first 3-4 minutes after switching on .	IC7503 MN1280L reset IC on timer PCB .
Panasonic	NVF65	Dead - psu ticking & whining	D1103 leaky in psu
Panasonic	NVF65	E-E patterning	C1118 100µ 50v in psu o/c
Panasonic	NVF65	Poor sigs - wont stop/store in search tune	Hash on 45v line - C1118 faulty in psu
Panasonic	NVF65	Works ok for 1st hour then will jump up channels: Jumping gets faster as time goes on	IC1 (MN187125VFM) u/s
Panasonic	NVF65B	Capst motor runs at full speed	Supply choke L2002 on main pcb o/c (No FG pulses)
Panasonic	NVF65B	Cassette jammed & poor recs	Replace C18 (100uF 50V) and C9 (1uF 400V) in the PSU, fit a new mode switch and resynchronise the carriage to the deck. Clean up the tape path.
Panasonic	NVF65B	Chans change on its own - gets worse with time	ICI MN187125VFM tuning chip
Panasonic	NVF65B	Dead with squeal from psu - int	45v line int due to fuse dry joints on main pcb
Panasonic	NVF65B	Display & functs slow to come on	IC7503 MN1280L o/p only 2.3v (5v) & would rise slowly - chip u/s
Panasonic	NVF65B	Int no sound in e-e & rec	sm link in demod pack dry joint (supplies 12v to pin 3 IC7651)
Panasonic	NVF65B	Low e-e o/p	Check IC1300 M51292FP sw chip
Panasonic	NVF65B	No FFwd/Rew all other functs ok	Rec safety sw extra leaf spring collapsed Pt no VES0486
Panasonic	NVF65B	No sigs	IC7502 MN112C261D by display faulty (band sw)
Panasonic	NVF65B	Noisy rew	Supply & T Up spindles req lub
Panasonic	NVF65B	Turns off when any funct selected	Reel opto coupler pt no ON2170
Panasonic	NVF65B	White speckles on pback pic	C1018 100µ 63v in psu
Panasonic	NVF65B	Won't stop when search tuning	afc defeat volts change not from 4.5v to 0v but stayed at 2.5v - MN12C261D memory chip IC7502 on front panel faulty
Panasonic	NVF70	No go or slow to start up	C1109 dried up also check/replace C1114
Panasonic	NVF70B	Dead apart from muted squeal at sw on	D1111 in psu s/c
Panasonic	NVF70B	Int fail to perform mech (esp 1st thing in morning)	Check R6035 0R9 for overheating/hi res
Panasonic	NVF70B	No Nicam sound	No clock wfm pin27 IC7901 TA8662N - X7902 not osc - chip u/s
Panasonic	NVF70B	Shuts down if rew or rev selected	R6035 0R9 ¼w o/c (pin 9 IC6005)
Panasonic	NVF70B	Switches off in review & can be int shut down	Check R6035 0R9 & release lever 160 VML2200
Panasonic	NVF70B	Various squeaks & rattles	Replace tension unit VXA3516 & soft brake VXL1873
Panasonic	NVF70EG	Dead aft lightning strike	IC1101 (STRD6008x), R1125 (2R2) & D1106 (MA4030L - 3V zener), all in the primary supply & check for hi esr caps.

Panasonic	NVF70EG	Dead aft storm	IC1 (STRD6008x), R25 (2R2) and D6 (MA4030L - 3V zener) in pri & check elects for hi esr
Panasonic	NVF75	Display shows "pause" & no counter	C6011 sm - QR6017 base o/c corrupting sig to IC7501
Panasonic	NVF75	E-E pic rolls & pulls	output from M51292FP sw chip IC 3901 dist - chip faulty
Panasonic	NVF75	Flickering blue pic in pause/slow	C1022 47µ in psu
Panasonic	NVF75	Int powers down & sulks - with random display	C6011 1000pf base QR6017 serial data tr o/c
Panasonic	NVF75	Random and erratic operation	C6011 1000pF oc (Surface mount capacitor at base of QR6017)
Panasonic	NVF77B	Cassette jams in housing when loading	Replace L side plate VMD1787 & cass holder VXA3840
Panasonic	NVF77B	Dist pic in Rec/Pback - ok in E-E	Luma/Chroma PCB IC2 - pt no VEFH14D
Panasonic	NVFJ610	No Functs - display ok	IP1202 o/c
Panasonic	NVFJ610	Static blips on pback	Earthing brush under upper drum - clean or replace
Panasonic	NVFJ610	Static interference on Pback pic	Check PSU earth spring (located under PSU) to bottom plate.Reflow solder on board at contact point so it makes solid contact. (item 111) on exploded view in service manual).
Panasonic	NVFJ610B-K	R/C inop - ok from front controls	OK if IR Rx is pressed, broken conn within IR Rx
Panasonic	NVFJ620B	No R/C after mains reset - front controls ok	Removed batts from handset for a couple of days cured it
Panasonic	NVFS series	Drum failure effect, or misaligned guide poles	Check for dry joints on drum motor pcb
Panasonic	NVFS1	Accepts tape then ejects it	R1501 47k across mode sw o/c
Panasonic	NVFS1	Dead after unplugged from mains	C45 47µ 50v on psu sub board
Panasonic	NVFS1	Dead or int dead	C1045 47µ10v hi esr
Panasonic	NVFS1	Int col on rec	dry joints lum/chroma pack - esp pin 34
Panasonic	NVFS1	Int mech operation	dry joints power reg in psu
Panasonic	NVFS1	No sound e-e; tuner sw inop	12v supply only 2.4v - Q1004 2SD638 o/c & D1012 zener o/c
Panasonic	NVFS1	Tuner drift	C7555 0µ01 decoupling cap at R7555 leaky
Panasonic	NVFS100	No pback SVHS pic - VHS OK	IC303 pt no VEFH05B
Panasonic	NVFS100	Slack tape on eject	Remove, clean & refit quarter load arm VXL1857
Panasonic	NVFS100	Tape counter not working in record and index function not working in play	Print oc between D2306 and pin 12 IC2201 due to C2311 leaky
Panasonic	NVFS100B	Mech probs - weak solenoid action	C0017 in kick cct
Panasonic	NVFS100B	No audio from audio I/p skt or hi-fi audio monitor	No -27v to I/p o/p pack - safety res in feed o/c (not shown on diag)
Panasonic	NVFS100B	No pic in SVHS	IC303 VEFH05B on small sub board
Panasonic	NVFS100B	No rec pic in SVHS mode	Corroded cap in lum/chrom pack at ceramic module IC303 - Module pt no VCR0389
Panasonic	NVFS100B	No S-VHS playbak	check for video pin 7 IC303 on lum/chrom board. If present at pin 2 but not pin 7 sus VEFH05 chip
Panasonic	NVFS100B	Patterning - diagonal in pback	Check C3311 in HQ pack, C3501, 6, 16, 9 (33µ) in sub lum/chrom pack

Panasonic	NVFS100B	Patterning on E-E	C3806 3.3uF 25V, C3807 3.3uF 25V, C3808 3.3uF 25V, C3801 1uF 50V on board VJB03691
Panasonic	NVFS100B	Patterning on Pback	C11 10uF 16V, C10 10uF 16V on board VEP03635, C10 3.3uF 25V, C16 3.3uF 25V, C9 3.3uF 25V on board VJB03680
Panasonic	NVFS100B	Pback pic dark/blurred	Sub lum panel - pin 1 IC3504 dist - C3510 pin 5 decoupler faulty
Panasonic	NVFS100B	Ragged pback pic for first half hour	check electrolytics in small screening cans - C1 1µ on board VJB03680 - also check C9, 10 & 16
Panasonic	NVFS100B	Snowy e-e & rf o/p & no reel counter	No non sw 12v at pin 1 P1101 psu o/p - Q1102 o/c
Panasonic	NVFS1B	dead, dim display b4 it went	C5 47µ 10v, C22 47µ 50v, C18 100µ 50v, C12 & 39 47µ 16v, C24 1000µ 6.3v, D2 AP01C, D32 ERA22-10, R16 2R2 0.5w satety also display low emission
Panasonic	NVFS200	Int pic breakup on own recs	Demod module microphonic with dry joints
Panasonic	NVFS200	No pic thro AV4 I/p skt	IC3901 M52474P sw chip faulty
Panasonic	NVFS200	Record inop	No REC 12v - Q4004 2SB790 faulty
Panasonic	NVFS200	Trips on load	When 12 & 14v rails dis'd tripping stops - spring shorting out terminal at front rh side of deck
Panasonic	NVFS88	Dead - psu can be heard to start	D6 in psu had carbonised ring around it & was faulty
Panasonic	NVFS88	Dead apart from 3 zeros flashing in display	Unsw supplies present, serial/data clock pulses low - M34255V1AH micro IC7507 leaky
Panasonic	NVFS88	Loud hum after warm up	Drum motor bearings - replace complete drum unit - expensive!
Panasonic	NVFS88	No rec - goes thro motions - erases prev recs	IC6003 BU5863F
Panasonic	NVFS88	Stops aft 6 secs in rec - all other modes ok	Q4004
Panasonic	NVFS88	Wont accept tape	Eject button on control door stuck
Panasonic	NVFS88B	Dim display	Display itself faulty pt no VSL0144
Panasonic	NVFS88B	Noisy mechs & cyclic mistracking	Drums bearings req lub
Panasonic	NVFS88B	Patterning on Pback	Replaced C3501, 3509, 3510, 3515 & 3506 on sub luma board VEP03895-B
Panasonic	NVFS90	Bad drop out or fine hor patt In pback	C3311 10µ o/c in HQ pack
Panasonic	NVFS90	Dark smearing to right of black image in pback	C3506 in 9v supply to IC3504 in 1H delay CCD pack
Panasonic	NVFS90	E-E dist	check small caps on IF/tuner board
Panasonic	NVFS90	E-E pic over white & dist	leaky sm elects in thick film hybrid chip IC303 pt no VCR0389
Panasonic	NVFS90	INT FINE HORIZONTAL PATTERNING	C3311 10uF 16v OC IN HQ CCT
Panasonic	NVFS90	No pback in SVHS aft ½ hr	IC303 pt no VEFH05BT in S sig chan heat sensitive
Panasonic	NVFS90	No pback lum & weak rec lum	leaky sm elects in thick film hybrid chip IC303 pt no VCR0389
Panasonic	NVFS90	No SVHS rec or pback - normal VHS ok	leaky sm elects in thick film hybrid chip IC303 pt no VCR0389
Panasonic	NVFS90	Playback pulling pic	IC03 hybrid IC had 4 x small caps leaky
Panasonic	NVFS90	Poor pback pic quality	dry joints X3301 in HQ pack 1H delay cct
Panasonic	NVFS90	Poor pback pics in SVHS & VHS modes with weak field sync	C3501 1µ 50v & C3506 in 1H delay pack

Panasonic	NVFS90	poor pic	video sig ok at Y/C pcb o/p; dist at modulator. All electros in CCD delay line module replaced
Panasonic	NVFS90	Poor picture on play	C3501 1uF 50v in YC pack
Panasonic	NVFS90	Poor playback luminance or record luminance	Replace surface mount electrolytics in module IC303
Panasonic	NVFS90B	No RF loop thro'	Dry joints sub pcb conn to motherboard
Panasonic	NVFS90B	Playback sound mutes aft few secs then reappears cyclically	C2311 1µ 50v on plug in servo board
Panasonic	NVFS90B	Sound mutes aft ½sec in play	C2311 1µ on servo pcb value was low
Panasonic	NVFS90EG	PB pic overloads/pulling/col patches missing	Replace 8 sub-min caps which surround the chip inside the "1H Delay CCD Pack CBA". This is a screened module attached to the "Sub Luminance & Chrominance Pack CBA" which is mounted separately under the"Main CBA" C4/C6/C15 10uF 16V; C9/C10/C16 3.3uF 25V; C8 0.22uF 50V; C1 1uF 25V. & 1uF 400V PSU startup cap also
Panasonic	NVG10	Poor pback pic & no field sync	C306 10µ
Panasonic	NVG12	No E-E: and no ON led	Usually STK5331 but also R1003 (10K)
Panasonic	NVG12 / 25	Striations and interference on the E-E and playback Drum servo can be disturbed	C1023 (1,000uF) 10V 105oC
Panasonic	NVG18	Dead	C1104 100µ 63v
Panasonic	NVG21	Dead apart from tape LED lit	C18 & C23 in PSU
Panasonic	NVG21	Display goes when playing/eject tape	10µ cap on psu sub pcb - C1017?
Panasonic	NVG21	Display/power goes off 2 secs aft sw on	C18 47µ 50v, C22 47µ 50v in psu
Panasonic	NVG21	E-E disappears when loading/unloading/rec & wont tune into chan 5 (Ch35)	Check/replace C12,39,18,22,25 all 47µ & C24 1000µ 6.3v
Panasonic	NVG21	Eject inop	C1018 & C1025 both 47uF 50V 105degr in PSU sec
Panasonic	NVG21	Int arcing/clicking from psu with display loss	Check caps in psu & adj of power fail pot
Panasonic	NVG21	Int dead	check dry joints in psu (may not be visible)
Panasonic	NVG21	Int switches on then won't sw off	Replace caps on sec side of psu
Panasonic	NVG21	No counter or audio in Pback - ok when heated	Control pulse not reaching syscon - C204 10uf and C240 10 uf Biploar
Panasonic	NVG21	No display	C1018 47µ 63v
Panasonic	NVG21	No functions & No Display	Replace STR1006
Panasonic	NVG21	Sw off when cassette inserted	C1023
Panasonic	NVG21B	PSU trips aft few secs	Replace caps C18 & C22 47µ 50v, C24 1000µ 6.3v, C21 10µ 16v, C39 & C12 47µ 16v
Panasonic	NVG25B	Switches between SP/LP	LP/SP sw on front pcb dry jointed
Panasonic	NVG40	no front display	Check C1020 33µ 6v on psu also C1018 10µ 50v
Panasonic	NVG40	Poor Pback pic	Heads
Panasonic	NVG40	snowy e-e & loop thro	not faulty ae amp but Q1004 in psu was o/c so no 12v supply to amp

Panasonic	NVG40B	Dead , D12 (20v zener) in Psu sc	Replace C3 1uF 100v and C12 47uF 16v as well as D12
Panasonic	NVG45	Dead	D1012 20v 1.3w zener s/c due to C1012 47µ 16v
Panasonic	NVG45	TAKES TAPE PARTLY IN THEN EJECTS	CASSETTE FLAP NOT SEATED CORRECTLY
Panasonic	NVG50	DEAD	C1003 1uF 100v OR STRD1806 & D1004 SC
Panasonic	NVG50	Dead	C15 10µ or C3 4µ7 250v in PSU
Panasonic	NVH65	Int loss of col in rec	dry joints YC pack (where it connects to main board)
Panasonic	NVH65	Int loss of servo lock	C1023 1000µ 10v in psu
Panasonic	NVH75	Dead	Q1006 2SC1384 crowbar tr leaky & C1042 10µ 25v leaky
Panasonic	NVHD100	Couldn't access tuning mode with front preset tune button	SMD diode (D7517 type MA221) back of ops board (front PCB) behind the large FF/REW rotary control was dry jointed
Panasonic	NVHD100	Display absent	Q1701 2SD973A next to osc trfmr T1701 on front timer board
Panasonic	NVHD100	Display absent	No filament volts - Q1701 2SD973A top rh side of display - used BC639 used in lieu
Panasonic	NVHD100	Int shuts down aft operating for some time	Mech loading motor VEM0427 faulty
Panasonic	NVHD100	INT SLOWS & STOPS	IC2505 XRA6439 CAPSTAN IC
Panasonic	NVHD100	Int twitching on rec	Impedance roller next to full erase head pt no VXP1402
Panasonic	NVHD100	Loses lock in search mode	Wear on capstan spindle - replace spindle (pt no VXP1350) & top bearing (VXD0140)
Panasonic	NVHD100	Lower drum noisy until warmed up	remove the 3 tiny special screws on earth plate above top bearing & drop fine oil down spindle.
Panasonic	NVHD100	Mechanism keeps locking	Loading motor drive shaft split - only available with motor - VEM0427
Panasonic	NVHD100	No clock display	Q1701 2SD973A s/c near display, L7 14v feed next to pin 24 P7402 on top pcb o/c
Panasonic	NVHD100	NO MICROPHONE AUDIO	IC7701
Panasonic	NVHD100	No rew & slack tape on eject int	Check centre clutch VXP1409 - bush cracks
Panasonic	NVHD100	No rewind & snagging tapes aft changing drive coupling & mode sw	minute hairline crack in the bottom print just by the reel sensors
Panasonic	NVHD100	Poor pback with drop out - compensator inop	No 5v pin 44 IC301 - L304 o/c
Panasonic	NVHD100	shuts down a few secs after sw on	capstan motor brake pad seized to motor - brake unit VXA5138
Panasonic	NVHD100	Slows down & stops after long period	Capst drive chip IC2505 XRA6439P
Panasonic	NVHD100B	Display missing	Q1701 2SD973A s/c on timer board & L7 o/c on top pcb next to P7402 (14v supply feed)
Panasonic	NVHD100B	Noisy drum bearings	A new motor very expensive - try lub spindle after removing torx screws holding earthing disc and let soak for a couple of hrs
Panasonic	NVHD200	Int shuts down when going between modes	Main lever (plate ass'y) cracked & worm wheel lost teeth
Panasonic	NVHD200	Int won't accept tape	dry joint take up end sensor

Panasonic	NVHD600	No NICAM recording, Videoplus not working	reset identity code as follows. Reconnect the cut link on board at back of machine, (on head amp board on NV-SD200) Press ' EJECT ' ' FF ' ' REW ' simultaneously, which should give you 000 on menu screen. * Enter 137 disconnect (or cut) link on back board, unplug set, reconnect and machine will go into auto tune. * For NV-SD 200 code = 41 NV-SD 400 " 73 NV-SD 450 " 105 NV-SD 600 " 137 NV-SD 650 " 169
Panasonic	NVHD600	No rec pic, sound present - ok in pback	Q3002 BC856B s/c in Rec 5v supply
Panasonic	NVHD600	Tape ejects as soon as loaded & no head spin	Capst motor seized - replace upper bearing pt no VXD0140
Panasonic	NVHD600	Tripping PSU	C15 47uf 35V, C16 47uf 50V, C43 330uf 10V, C35 330uf 20V
Panasonic	NVHD600/06	Tape snags on loading	Pinch roller collar had split & slipped down - replace collar
PANASONIC	NVHD600B	DEAD	CHECK SMPS TRANSFORMER FOR DRY JOINTS
Panasonic	NVHD600B	Dead with PSU pulsing	C15 47u 35v, C16 47u 50v, C43 330u 10v, C34 680u 10v, C40 82u 35v, C31 680u 25v, C35 330u 10v, C32 330u 20v, C37 47u 63v
Panasonic	NVHD600B	Tripping psu	D1124 MA185 - use BYD33D or J in lieu
Panasonic	NVHD600B	Tripping PSU	C43 330uF 10V, C34 680uF 10V, C35 330uF 10V, C32 330uF 20V
Panasonic	NVHD600B	Tuning drifts slightly	C7605 0µ1 50v
Panasonic	NVHD605	Accepts then immediatly ejects tape - capstan rotates fast	C2043 0µ47 sm cap in FG feedback cct s/c
Panasonic	NVHD605	Error code "H02"	Capstan drive problem
Panasonic	NVHD605	F3 & F4 show in display	Check deck mode sw contacts & C6002 0µ22, C2043 0µ47 sm & IC6002
Panasonic	NVHD605	FO6 shows after after motor coupler fitted	No capst motor drive due to damaged ribbon cable; still FO6 shows when carriage fitted; gear front R/H Lower had jumped a tooth
Panasonic	NVHD605	HO2 in display	Capst motor stator unit VEK5927 replaced
Panasonic	NVHD605	No auto tune - manual tune produces dark unsynced pics	switching chip IC3902 4053 sm & IC3906 4051 sm faulty - see vcr clinic feb 00
Panasonic	NVHD605	No display - drum rotating fast	Q1004 2SD1330 in psu
Panasonic	NVHD605	No or weak load motor op	No volts pin 7 drive chip IC2001 - C6002 0µ22 sm elect
Panasonic	NVHD605	No tuning - OSD present & dark pic with roll on E-E	IC3902 sm sw chip 4053
Panasonic	NVHD605	Tape stuck in m/c with "F03" displayed	Replace shaft unit VID11439 CHS £4.90 - rh side of unit had come unmeshed from mechs - caused by heat from heatsink below

Panasonic	NVHD605B	Tuning had shifted up band slightly	R7612/6 330R overheating due to C7605 0µ01 sm leaky
Panasonic	NVHD610	Dead - psu blown	Replace F1 1A, C1117 0µ1 50v, Q1101 STP3N60F1-M, IC1101 TDA4605-3, R1114 0R75, R1119 220R
Panasonic	NVHD610	Head speed fast & err F09	IC6001 6Mhz Xtal faulty
Panasonic	NVHD610B	No sound LH chan in e-e ; pback ok	Check 5v at Q7301 & 8v at Q7302 in Nicam sect - if ok change IC7301 MSP3410-15 68 pin flat pack
PANASONIC	NVHD620	ACCEPTS TAPES DOES NOT LOAD UP THEN EJECTS	REPLACE CAPSTAN STATOR PANAVEM5927
Panasonic	NVHD620	Dead	QR1101 UN6114 & Q1102 2SD1991A in volts control sect
Panasonic	NVHD620	Machine trips just as loading motor starts	Load motor drive IC
Panasonic	NVHD620	No E-E or Pback pic & no OSD	Q2 2SD1996 o/c used BC639 in lieu - near start sensor on RH side of main board
Panasonic	NVHD620	Patt on e-e in rec mode only	wire from full erase head caught & shorting to metal bracket in mech
PANASONIC	NVHD620	PLAYS FOR 5SECS WITH NO PICTURE	REPLACE Q1002 2SD1996
PANASONIC	NVHD620	SOUND BREAKING UP	REPLACE VIDEO HEADS PANAVEH0844
Panasonic	NVHD620	Sound sometimes not rec on timer	Mod req to PDC - see Panasonic for mod sheet
Panasonic	NVHD620B	Int no recorded sound on timer when PDC used	Mod as per Pan pdf - involves changing sm res, adding diode on timer board & removing cap on main board
Panasonic	NVHD625	No Play & int eject	LH side loading arm spring had gone loose in its ass'y & causing jam
Panasonic	NVHD625	No rev search - just kicks	Replace clutch unit
Panasonic	NVHD625B	Ejects tapes when inserted	Plastic load motor pcb holder broken causing pcb to drop damaging worm wheel, master main cam gear, load motor shaft & mode sw
Panasonic	NVHD630	Ejects tape int	Replace reel sensor IC 1501 (Panasonic part no RP1354N).
Panasonic	NVHD630	Int rec col in LP mode	C3075,76,78 sm caps replaced
Panasonic	NVHD630	Intermittent audio ('Norman Collier effect')	New upper drum cured it
Panasonic	NVHD630	No E-E or Pback sound - Rec sound ok	IC4501 BH7803K sound proc chip
Panasonic	NVHD630	Pback/E-E missing	5v supply only 1.8v. Q1201 2SD2259
Panasonic	NVHD630 (Z Mech)	No sync pulses on rec or play	ACE head pcb damaged due to tape being inserted sideways
Panasonic	NVHD635B	Int stopping & ejecting	Mode sw
Panasonic	NVHD640	Int cuts out in search	Mech not travelling far enough - mode sw
Panasonic	NVHD640B Z mech	Int shut down during play/rec	Loss of take up tension - replace clutch ass'y pt no VXP1732 & drive gear VDG1221
Panasonic	NVHD650	Drum rotates high speed but otherwise dead	s/c across sys ctl 5v line - IC3904 BU1201-02 on ip/op pack s/c
Panasonic	NVHD650	No menus, test sig & "F05" displayed when tape inserted	Q1002 2SD1996STTA 5v reg in psu
Panasonic	NVHD650	No R/C	VTR2 selected in menu by mistake - select 'TV select' under flap

Panasonic	NVHD660	Cassette int pulls back in after eject & jams	Lighthouse LED dry joints
Panasonic	NVHD660	Cassette stuck - no eject with "H02" in display	H02 = no capst drive but Q1007 2SD25440PQA 12v reg was faulty in main pcb
Panasonic	NVHD660	E-E pic light & crushed - pback no col	TDA9725 IC302 Y/C proc chip
Panasonic	NVHD660	On screen menus wrong col & rolling down screen	C7703 0µ22 sm connected to pin 12 IC7705 leaky
Panasonic	NVHD660	PSU blow up	Repair kit available Pt no VUE4125KIT containing 18 items
PANASONIC	NVHD660B	IF NO REMOTE FUNCTIONS BUT REMOTE IS OK	PRESS "TV SELECT" AND THEN UP OR DOWN
Panasonic	NVHD685 Z Mech	Tape stuck - sounds like machine gun when powered up	VXL2670 & VXL2672 the two gear arm units that move the tracking arms back & forth - teeth on lh gear had worn
Panasonic	NVHD685B Z Mech	No eject - all other functs ok but tracking errors in play	Tape arms not fully loaded - Take up loading arm teeth broken Pt no VXL2970
Panasonic	NVHD90	Head sw point 2/3rds up screen	No field sync sig used to lock drum Ø - IC301 VEFH29H vid sync proc
Panasonic	NVHD90	No pic e-e	12.3v line low at 5v - C1130 1000pf in psu faulty
Panasonic	NVHD90	No test signal	Dry joints in RF mod
Panasonic	NVHD90	Noisy drum bearings	Remove motor from deck & lub bearings
Panasonic	NVHD90	Poor pic & lines after an hour in rec	IC301 VEFH29H
Panasonic	NVHD90	Poor search pic	wear in lower drum
Panasonic	NVHD90	Transient flashes on pic that mutes sound briefly	C1130 1000pf ceramic cap in 12v line in psu
Panasonic	NVHD90B	Blue vert bar on pback	Noise at pin 16 IC301 in CNR cct - adj VR801
Panasonic	NVHD90B	No UHF o/p	dry joint in RF modulator
Panasonic	NVHS1000	Dead - no display	Q1102 2SD1996STTA in psu o/c - no unsw 5v
Panasonic	NVHS1000	No video out - all other functs ok	resolder IC3 and IC4 in the power supply.
Panasonic	NVHS1000	Poor e-e via AV1 & st/by led won't light	IC3901 AV sw chip leaky
Panasonic	NVHS100B	No rec/pback in SVHS mode	4 x caps around thick film device IC303 had leaked onto board & damaged it. Replace 2 x 4µ7 & 2 x 47µ caps & repair pcb tracks
Panasonic	NVHS800	Tries to load cassette carriage then shuts down	Transmitter (lighthouse diode) D1501 o/c(LN59P)
Panasonic	NVHS900	Ticking noise from capstan	Tension roller - tensions toothed capst belt worn on shaft
Panasonic	NVHS950	Shuts down in review mode - int with tape spilling out	Excess friction on lower drum - makes the job uneconomical
Panasonic	NVHS950B K mech	F06 int shows in display	dry jointed centre tower IR transmitter
Panasonic	NVHS950B K mech	No rec pic in SP/LP, Play ok, search reasonable, pause poor - faulty heads symptoms!	Check soldering on plug that connects amp to skt at back of heads
Panasonic	NVHS950B K mech	RF Modulator - no o/p	hold menu button on R/C > 5 secs, RF-- appears. Enter can no & press store
Panasonic	NVJ30	Dark/pulling pic on e-e & pback	dry joint on ferrite comp in RF conv
Panasonic	NVJ30	Dead	C9 1µ 400v , C18 100µ 50v in psu
Panasonic	NVJ30	Int stop reported - int auto rew, plays tapes imediately when inserted	Loose deck ribbon connector

Panasonic	NVJ30	No load/unload when cold; FFwd/Rew int hum bar & pulling pic - ok when heated	STRD1816 reg chip in psu heat sensitive
Panasonic	NVJ30	Pback speed fast aft replacement of caps in psu for noisy motor	capstan fg hall sensor on the motor board
Panasonic	NVJ30	Snowy pic e-e	Dry joints tuner
Panasonic	NVJ30	Wow & flutter on sound with grinding noise from capstan motor	C22 330µ in psu
Panasonic	NVJ30B	Dark/pulling in e-e	dry joints in RF conv
Panasonic	NVJ30B	Dead	C9 1µ 400v, C18 100µ 50v, C22 330µ 10v, C32 10µ 25v all hi esr
Panasonic	NVJ30B	Dirty head symptom	Poor conn on lower drum - resolder conns aft removing heads
Panasonic	NVJ30B	E-E pic top ½ distorted when cold	C768 10µ 12v decoupler
Panasonic	NVJ30B	NO display of chan no or functs	R6044 220R hi res
Panasonic	NVJ30B	No tuning in e-e, locked on Band1	IC7502 MN12C261D5 faulty - provides sw lines from data fed to it
Panasonic	NVJ30B	Pback slow	C22 330µ 10v in psu
Panasonic	NVJ30B	Runs too fast in play - all other modes ok	Mode sw
Panasonic	NVJ30B	Tape ejects with a hesitant click	Timing of cass housing 1 tooth out
Panasonic	NVJ30B	Wont accept tape - no capst	No 5v at IC2101 or anywhere in sys con - Q1102 2SD1330 in psu faulty tho read ok
Panasonic	NVJ35	Accepts cassette then ejects it	Goes out of time due to broken plastic spigot on rh side of housing - repaired by using self tap screw in place of spigot
Panasonic	NVJ35	Accepts tape but only pays for a sec then shuffles & repeats	Alignment out - Re-align timing marks on ITEM113 (GEAR CENTRE) and ITEM116 (CLUTCH DISK) on the underside of the deck
Panasonic	NVJ35	Dead	Diode D1104 S/C in snubber network
Panasonic	NVJ35	Dead	C909 1µ 400v - but still dead with ticking - IC7501 on front pcb u/s
Panasonic	NVJ35	Low sound	C19 10µ 25v (under tuner/mod panel)
Panasonic	NVJ35	Mech keeps jamming	Replace worn pinch roller and blackened mode switch and resolder many dry joints around the capstan drive circuitry.
PANASONIC	NVJ35	NOISY AND WOW ON SOUND	REPLACE C22 IN POWER SUPPLY 330MFD10V
Panasonic	NVJ35	Noisy capstan	C1122 330uF
Panasonic	NVJ35 NVJ40	NOISE BARS ON PB OR POOR PICTURE OR NO COLOUR OR ALL THREE	CAPACITORS IN POWER SUPPLY SECONDARYS ALSO C1109 1uF 400v C1114 47uF 16v IN PRIMARY SIDE
Panasonic	NVJ35B	Dead	D1113 20v prot diode s/c, C1114 47µ 16v low cap
Panasonic	NVJ35B	Dead	D1104 AP01C in snubber s/c
Panasonic	NVJ35B	Dead	IC1 STRD1816, R25 2R2, D6, D7, R28 180R, R23,R24, 15K
Panasonic	NVJ35B	Dead - no display	PSU volts all ok - no osc at pin 2 & 3 of display IC7501 - Xtal X7501
Panasonic	NVJ35B	Display - several segments perm lit	Check display or diodes connected to it - micro IC7501 also sus

Panasonic	NVJ35B	Ejects tape when inserted	broken plastic retaining lugs on rh side of housing - new rh side fitted VXA3153
Panasonic	NVJ35B	Erratic mechs - int shuts down	solenoid chatters, R6022 in solenoid drive dry joints
Panasonic	NVJ35B	No rec col	Filter FL801 ELB4W002 o/c
Panasonic	NVJ35B	No RF o/p - ok on scart	No N SW12v supply to RF conv - Q1102 2SD1330 in psu faulty
Panasonic	NVJ35B	Records for max of 1½ hrs then stops	reel pulses to syscon chip low at 3.5v (4v) - reel sensor dirty
Panasonic	NVJ35B	Sound fluctuates with pic breakup	Replaced C9 1µ 400v, C32 10µ 16v, C22 330µ 10v - all 105deg
Panasonic	NVJ35B	SP playback like LP recs & wide noise bars & no col in search	R2302 1k5 sm res o/c (cracked)
Panasonic	NVJ40	Audio buzz	Mod reqd, Locate D99 on main pcb,near carriage ribbon cable,cut thin track between links W66 & W67 on component side of pcb.
Panasonic	NVJ40	Blank pic in search	Lower drum worn
Panasonic	NVJ40	Dead or int dead	Check caps in psu - C1110 10µ 400v, C1127 330µ 10v, C1131 330µ, C1126 10µ, C1125 680µ
Panasonic	NVJ40	Dirty head symptom	C1127 330µ in psu
Panasonic	NVJ40	Display shows "E9" & no functs	No osc at sm IC6001 pin 82 - Q6101 on fold down pcb
Panasonic	NVJ40	Drum motor lazy or noisy	Check C204/5/6 0µ 50v on drum motor pcb
Panasonic	NVJ40	E-E pic rolling	C315 non pol 22µ cap o/c
Panasonic	NVJ40	Excessive capstan speed	L2001 o/c (no 12v to stator)
Panasonic	NVJ40	Flashing pic in E-E & pback & no rec pic	Pback 5v low at 3v - IC1103 VEFH24A
Panasonic	NVJ40	Int powers down when tape inserted - no drum	Head not spinning - excess wear in rh side carriage causing mode sw not to align - pt no VXA4468
Panasonic	NVJ40	No auto stop	Lighthouse led - should produce 0.8v p-p signal - this one produced 2.5v p-p
Panasonic	NVJ40	No e-e sound or stopping in search mode	IC7651 AN5421pin 9 should be low - had 5v on it - chip faulty
Panasonic	NVJ40	No pback when cold then patt	C1127 330µ 5v decoupler
Panasonic	NVJ40	No rec col	VEFH14D hybrid chroma chip
Panasonic	NVJ40	No recorded Chroma playback ok	VEFH14D hybrid chroma chip faulty
Panasonic	NVJ40	Tape stuck in machine Tape loading ok	Capstan motor faulty
Panasonic	NVJ40	Tries to load tape when none inserted	Capst goes full power - drive chip BA6435 faulty
Panasonic	NVJ40	Tuning int	Pin 3 IC7652 AN5043 volts low & varies - C7666 0µ01 faulty
Panasonic	NVJ40	Will power off when tape inserted Head drum does not start as tape loaded	Right hand cassette housing mode switch faulty
Panasonic	NVJ40 NVJ45	For Drum motor that appears to be Lazy or noisy	Replace C204 C205 C206 (1uF 50V) on small PCB behind mechanism
Panasonic	NVJ42	Blank raster in pback - E-E ok	FM into IC302 pin 41 ok - no o/p Chip u/s VEFH14D
Panasonic	NVJ42	Does not slow down in rew when near start of tape-damages leader	take up reel sensor pt no 0N2170

Panasonic	NVJ42	Int shut down to stop	Supply spool opto coupler o/p low - opto faulty
Panasonic	NVJ42	Mech problems/much tooing and froing of spools - solenoid does not give a good click	D603 in kick sect of solenoid o/c
Panasonic	NVJ42	No rec or e-e pic - sound ok with test sig on	IC302 on lum/chrom pack
Panasonic	NVJ42	No search tuning lock	No afc feed from pin 6 of demod pack - plug o/c
Panasonic	NVJ42	No tape end sensing or auto rew	R612 22R safety res o/c
Panasonic	NVJ42	No transmit from r/c scanner unit	hi res IR diode
Panasonic	NVJ42B	Buzz on Pback sound	Locate D99 on the main pcb (near carriage ribbon cable) cut the thin track between the links W66 and W67 on the component side of the pcb. Please note the track to cut is located on the component side of the pcb and run between the to link not necessarily connected to them
Panasonic	NVJ43	Dead apart from operate light	Micro faulty
Panasonic	NVJ43	Dirty head symptom - no head sw pulse	from pin 60 of µ - chip u/s & end sensor & 22R in series with it
Panasonic	NVJ45	Blank raster	330µ on 12v I/p to STK chip
Panasonic	NVJ45	Centre pulley as'y broken	Due to pinch roller up/down shaft dry/partially siezed
Panasonic	NVJ45	Clock only - no functs	kick from capst motor when tape insertion tried - sm cap pin 6 IC601
Panasonic	NVJ45	Cuts out aft few secs in rec	del rec 12v supply missing - Q6203 2SB1321AR faulty
Panasonic	NVJ45	Diagonal patterning on tv in rec mode	C831 4µ7 in lum/chrom pack
Panasonic	NVJ45	Display lit at once & flashed	R7504 100R in display grid supply hi res
Panasonic	NVJ45	E-E pic jagged verts - pback pic non existant	C1127 330µ 10v - (6v unreg smoother)
Panasonic	NVJ45	No col with own recs	Check NTSC sw on front in correct posn
Panasonic	NVJ45	No rev search	mode sw
Panasonic	NVJ45	Playback just snow - e-e ok	680µ & 390µ Caps in psu
Panasonic	NVJ45	Several attempts to get it to play/rec	Loading poles ½ load then stop - mode sw
Panasonic	NVJ45	Severe patt in e-e obliterates pic	C1127 330µ in psu
Panasonic	NVJ45	Snowy pic on loop thro' - ok on e-e	Tuner faulty -ENV87837H3 - repaired at MCES
Panasonic	NVJ45B	No display or key scan	5v supply to timer board low (<4.6v pin 17 P7501) IC7502 M6M80021P pulling it down & faulty
Panasonic	NVJ45B	Won't accept tapes - capst runs too fast	Check L2001 for o/c & FG sensor on capst motor
Panasonic	NVJ47	BROKEN SUB LOADING ARM	AFTER REPLACING CHECK END SENSORS ARE WORKING IF NOT R6612 MAY BE OC
Panasonic	NVJ47	Buzz on Pback sound	Cut thin track between link on D99 component side (near carriage ribbon cable)
Panasonic	NVJ47	Buzz on Pback sound	Find D99 on main PCB (near carriage ribbon cable) cut the thin track between the links W66 & W67 on the component side of the PCB.
Panasonic	NVJ47	Buzzing	add 0µ01 50v across pins 3 & 4 Q1103 in psu
Panasonic	NVJ47	E-E pics covered in dark flashing bars	C2318 22µ connected to pin 9 IC302 on lum/chrom sub pcb

Panasonic	NVJ47	End sensor not operating at rew	Tower led wform low - R6612 22R safety res o/c
Panasonic	NVJ47	Erratic mechs - int shuts down	Capst stator dry joints
Panasonic	NVJ47	Head drum reluctant to rotate	C206 0µ1 across pin 12 of drive chip faulty
Panasonic	NVJ47	High pitched noise in st/by	add 0µ01 cap across pins 3 & 4 of opto coupler Q1103 in psu
Panasonic	NVJ47	Int switch itself on or off	Operate button "gummed up"
Panasonic	NVJ47	No pback video thro scart or rf - sound ok when test sw on	Hybrid module sus but used scrap panel out of a NVSD47
Panasonic	NVJ47	Playback col phase fault	K302
Panasonic	NVJ47	Sound in search mode	Edit sw is ON
Panasonic	NVJ47	Whistles/buzzes in st/by	T1101 - sealant applied
Panasonic	NVJ7000AM	Dead apart from squeal from psu	C49 0µ1 100v s/c - also check 1µ 400v start up cap
Panasonic	NVJF615B Z Deck	Chews tape on eject	capstan motor (pt VEK8841 currently 30.76UKP's from Seme
Panasonic	NVL10	Loads tape then ejects it	Take up sensor
Panasonic	NVL15	No rec sound - E-E & pback sound ok	Q1 sm near sound ic at top of board s/c
Panasonic	NVL20	E-E buzz on sound	Increase value of C7655 from 2µ2 to 10µ near IC7651 Audio o/p chip (unofficial)
Panasonic	NVL20	E-E smeary pic	C730 & 731 10µ in IF can
Panasonic	NVL20	Int flashing in e-e & no tuning	Tuner BT supply low C706 0µ01 leaky
Panasonic	NVL20	Int no pic on RF	ENC17952 RF Modulator
Panasonic	NVL20	Int stop & unload in rec mode	rec inhibit sw
Panasonic	NVL20	Int stops, locks up, no eject or functs etc	Mode sw
Panasonic	NVL20	No capstan or cassette loading	Q2002 5v reg
Panasonic	NVL20	Operate button not working - display ok	Q6101 2SC2206 on CBA panel (small pcb below main panel)
Panasonic	NVL20	pic break up in fwd search only	nearly normal when control head pins shorted - servo/syscon chip IC2001 u/s
Panasonic	NVL20	Pic break up into lines in fwd search	Worn lower drum
Panasonic	NVL20	Poor e-e - cured by tapping	Dry joints in tuner/rf converter
Panasonic	NVL20	Poor pic in rev search & int throws out tape	entry guide seized pt no VXP0863
Panasonic	NVL20	Unable to tune any chans	VL & VU lines wrong - micro IC7501 M37422V4AF faulty - unable to dertermine tuning bands
Panasonic	NVL20	Very poor picture in review mode, machine will sometimes throw tape out into machine	Roller on head entry guide jammed Pt No VXP0863
Panasonic	NVL20	Won't load tape - damaged gears on main cams	Caused by jamming clutch on capst motor
Panasonic	NVL20B	Int shut down	Dry joints pin 15 plug 1
Panasonic	NVL25	Dead	D1113 s/c, C1109 1µ 400v, C1114 47µ 63v o/c,
Panasonic	NVL25	Int capst servo lock	STK5392 reg chip 5v o/p int rises to 6.2v - chip faulty
Panasonic	NVL25	Int operation	Check Xtal X6101 for dry joints & capst motor plug P2001 is in firmly

Panasonic	NVL25	No sound pback	C4015 10µ 16v
Panasonic	NVL25	Smeary pic, int sound	C7651 10µ 16v bipolar cap
Panasonic	NVL25	Won't power up & "write erase" displayed	serial data line pulses low C6012 sm 270pf leaky
Panasonic	NVL25	Wow on sound & flicker	Capst drive chip IC2101 XRA or BA6435S
Panasonic	NVL25B	Dead	C9 1µ 400v psu
Panasonic	NVL25EG	No op	dry joints pins 7-14 psu o/p conn
Panasonic	NVL26B	Dead	C9 1µ 400v in psu
Panasonic	NVL28	Display dim or out	Dry joints pin 7 T1101 chopper tfmr or links to pin 12 & 13 of P1001 of main pcb
Panasonic	NVL28	Int failure to rec/play & chews tape	Arm P5 sticking - lub
Panasonic	NVL28	Int loss of vid & sound whilst rec	Dry joints jumper ribbon cable to front pcbs
Panasonic	NVL28	Int plays off tape & e-e pic together	Wires s/c in pic in pic pack
Panasonic	NVL28	No col on pre-recs	IC2001 MN6740VCJK sys & servo proc chip
Panasonic	NVL28	No Rew	Mode switch
Panasonic	NVL28	Patterning on reds & yellows on rec	REC-C set in-correctly on head amp
Panasonic	NVL28	Pulling at top on pre-recs	Fit 22µ non pol or tant cap across C9568 in dig pack
Panasonic	NVL28	Snowy e-e & pback	dry joint RF & AE skt
Panasonic	NVL28B	Dead	D1113 20v overvolts diode s/c due to 20v high. C1114 47µ 16v faulty
Panasonic	NVSD10	Cass symbol flashes when Rec selected	Break in track between pin 13 of plug P6501 & cathode of D2509 all on sub servo board
Panasonic	NVSD10	Head jerks back & fro & no sync, no col/tracking error etc	Check/replace elects in psu
Panasonic	NVSD10	Slow FFwd & Rew	clutch slipping centre
Panasonic	NVSD100	Dead after storm	STRS6545 reg chip & mains fuse
Panasonic	NVSD100	No display	No filament volts - Q1701 on the front panel 2SD973A transformer driver
Panasonic	NVSD100	Poor e-e & rec pic	Chrom/lum module - replaced 3µ3 50v sm cap on it
Panasonic	NVSD190/200	Some controls on front panel don't work - ok via r/c	IC7005 (M34240V1BQ) had internal short on Pin 42 (KEY IN 0) of 5 ohms to gnd, should be a few Kohms) This is the Display driver & keybd control.
Panasonic	NVSD2	e-e overloads / flashes, pback better	sm caps in luma pack - cut off b4 desoldering
Panasonic	NVSD200	Burning smell when deck replaced	check position of earthing clips (can destroy Q1003)
Panasonic	NVSD200	Error code "F06"	RH side carriage loading arm bent - fit new loading shaft VXP1339 - 1L due to Q7 getting hot below
Panasonic	NVSD200	Goes to LP in rec mode (Not an option on this model)	Option wrong in memory IC - either reprog or fit IC4 from serv machine
Panasonic	NVSD200	Int starts up on its own	Lighthouse led going o/c int
Panasonic	NVSD200	Low sound in e-e	C0729 in VIF pack dry joint
Panasonic	NVSD200	No chan change	fit kit VSX0875KIT 3UKP
Panasonic	NVSD200	No display - everything else ok	Spillage from backup battery corroded print

Panasonic	NVSD200	No eject aft warm up - FO6 in display. If at end of tape aft R/W pressed would shut down with FO3 displayed	replace motor spindle worm screw
Panasonic	NVSD200	No start up from cold	2 x 47µ caps on psu pri
Panasonic	NVSD200	Noisy rewind	Check spools rotate freely, loading motor bracket & worm wheel gear
Panasonic	NVSD200	Plays back at cue speed	IC2501 BA6871S capstan drive chip
Panasonic	NVSD200	Shuts down whilst accepting/ejecting tape	dry joints loading motor panel
Panasonic	NVSD200	Tape damage	Loading arm not locking correctly (P5) - arm bent
Panasonic	NVSD200	Tape loading inop - e to e vid vanishes	loading motor drive i.c ba6887-v3
Panasonic	NVSD200B	No col Pback/Rec	C3043 & C3038 sm near IC3001
Panasonic	NVSD200B	Some front panel controls inop	C7517 backup battery leaked corroding print - Repair kit VUA-SD200B from Pan FOC
Panasonic	NVSD200B	Tape stuck in & showing error F03	tight capstan motor top bearing housing unit VXD0140 - replacement is only cure
Panasonic	NVSD22	Loses lock in fwd search & line on bottom of pic in play	Check for dirt on lower drum or could be wear here
Panasonic	NVSD22	Loses sync in search	Worn lower drum - try cleaning with Duraglit
Panasonic	NVSD220	Error code H01 - no drum	Check for dry joints vid head rotary trfmr pcb, drive cct, capstan bearing & mode sw
PANASONIC	NVSD220	NO FUNCTIONS, TAPE STUCK, NO E-E	NO VIDEO 5V ON Q1003 2SD1330 OR 2SD1996
Panasonic	NVSD220	To adjust RF o/p	Press MENU for 5 secs until black & white bars appear. Enter no. between 21-69 & press store.
Panasonic	NVSD220	To turn RF o/p off	Press MENU for 5 secs until black & white bars appear. Enter "0"
Panasonic	NVSD220B	Audio has wow	C1,2,23 2u2, C6, 47u C22, 220u
Panasonic	NVSD230 Z deck	Various symtoms inc eject aft load, go to play then unload/eject & slow wind/rewind	Reel sensors IC1501/1502 both type RPI354N
Panasonic	NVSD230B	Playback speed very fast	Capstan motor VEK8841
Panasonic	NVSD230B	Sound speeds up & slows down in play	Mod - replace C2519 with 0µ18 pt no ECUM1C184KBN
Panasonic	NVSD240	Low sound on rec/pback	ACE head
Panasonic	NVSD240	To switch on RF mod	Press "Menu" on remote control, hold down for 5 seconds, then select RF channel number to store to between 21 - 69.
Panasonic	NVSD25	Loss of line lock in search	Capstan spindle part siezed
Panasonic	NVSD25	No pic e-e	12.3v supply low at 7v - QR1001 UN2211 leaky
Panasonic	NVSD25	No rec - thinks rec prot tab missing	caused by corroded print under the back up cap.
Panasonic	NVSD25	Poor rec sound & tape edge damage	High back tension due to brake not releasing - brake lever ass' broken (VXZ0301)
Panasonic	NVSD260	Int low sound rec	C4014 3300pf between pins 5 & 6 T4001
Panasonic	NVSD30	Ejects tape as soon as inserted	capst stator pt no VEK4097 faulty (no FGs or PGs)
Panasonic	NVSD30	Fails to go into Rew with certain pre recs	Change micro to MN67434VRSH

Panasonic	NVSD30	Int Plays back fast	Capst drive chip XRA6439P
Panasonic	NVSD30	Int tape damage & clicking when loading/unloading	Slide cam damaged & replace mode sw
Panasonic	NVSD30	Loss of line lock in cue mode	Sw to NTSC - poor head/tape contact, p roller & drum badly worn
Panasonic	NVSD30	ON CERTAIN PRERECORDED TAPES FAILS TO GO INTO FAST REWIND	CHANGE MICRO TO TYPE MN67434VRSH
Panasonic	NVSD30	RUNS AS IF IN CUE MODE	XRA6439P CAPSTAN DRIVE IC
Panasonic	NVSD30	Tape chewing bottom edge	Back tension high, supply reel stiff, - end of take up brake arm broken
Panasonic	NVSD30	TAPE IMMEDIATELY EJECTED	NO CAPSTAN ROTATION OR NO ROTATION SENSED
Panasonic	NVSD30 NVSD40	Chews tape , supply reel stiff	Take up brake arm broken VXZ0313
Panasonic	NVSD300	Unable to sw off RF signal	Check for dry joints under RF on sw & sw contacts
PANASONIC	NVSD30VR	TRACKING BARS AND WOWING SOUND	REPLACE REEL BRAKE MECHANISM PANAVX20313
Panasonic	NVSD40	Accepts a tape then shuts down aft few mins	Loading motor drive chip IC6501 BA6219B
Panasonic	NVSD40	Dead with slow ticking	R1120 560k & R1121 820k hi res
Panasonic	NVSD40	Ejects tape as soon as inserted	Capstan seized due to thrust screw UMT on top loose - readjust
Panasonic	NVSD40	Int no pic record - sound ok (just snow)	Q3007 sm tranny int o/c base - em
Panasonic	NVSD40	Int tuning drift/flashing & flickery pic	C706 0µ1 chip cap - contamination under it
Panasonic	NVSD40	No e-e or pback sigs	PS701 connector broken - check all plugs to demod pack
Panasonic	NVSD40	No loop through r.f. gain	Always 12v missing D1114 o/c also check D1115
Panasonic	NVSD40	No rec or erase	Q3007 2SB710 sm
Panasonic	NVSD40	No rec pic - just snow	Dry joints head amp IC501
Panasonic	NVSD40	No sound e-e or pback - ok at scart	R7005 1k chip res (pin 4 RF conv)
Panasonic	NVSD40	Pback has horiz swaying effect	Reg Q2505 2SD601 12v supply to capst leaky
Panasonic	NVSD40	PICTURE SWAYS HORIZONTALLY	Q2505 2SD601 LEAKY
Panasonic	NVSD40	Playback of prerecorded cassettes ok Playback of own recordings produce just snow	Dry joint on pins of IC501 inside head amp screening can
Panasonic	NVSD40	Poor pback & search	Complete drum ass'y worn due to high back tension caused by broken take up brake arm broken (pt no VXZ0313)
Panasonic	NVSD40	Tape stuck with "H02" displayed	Dry joints BA6887 load motor drive chip
Panasonic	NVSD40	Will accept cassette and keep it then power down	IC6501 BA6219B u/s
Panasonic	NVSD40	Won't accept tape	Dry joints pl/skt P1506 connected to Q1503 2SB941 on die cast chassis
Panasonic	NVSD40	Won't accept tape	Load motor drive chip BA6219B but blew again later - dry joint load motor pins was the cause
Panasonic	NVSD40	Wont accept tape or ejects it when inserted	No 12v to capst stator - Q2505 2SD601 u/s
Panasonic	NVSD40	Won't go into rec mode	back up cell leaked onto print & o/c'd it on its path to micro
Panasonic	NVSD400	Lines on pback pic & sound varies	FM Wform dist - P5 arm unit bent Pt no VXL2306
Panasonic	NVSD400	No pback or e-e sound	Pin 30 IC7501 on timer pcb dry joint

Panasonic	NVSD400	No vid or aud from rf or scart	coins inside - Q3003 & R3028 sm
Panasonic	NVSD40B	Int loss of loop thro'	Losing 12v supply to amp due to sm 47µ choke L7005 o/c int
Panasonic	NVSD40B	Int sound dropout & pic instability	Dry joint audio/sync head - also pinch roller & tension band reqd
Panasonic	NVSD40B	Intermittent R.F. loop through loss of unswitched 12V	L7005 (47uF) surface mount choke going o/c
Panasonic	NVSD40B	Lines on top of screen in rec in SP - ok in LP & pback both LP/SP or black lines on transients	Sus heads - repair not done due to cost
Panasonic	NVSD40B	No loop thro'	No AT12v - check D1114 & 1115 for o/c
Panasonic	NVSD40B	Tape crunched at top edge as the cam down lever lowered pinch roller & no rev search	P5 arm unit part 47 on exploded view not taking tape behind pinch roller fast enough. White plastic slider - main lever unit part 144 on diag broken at point where P5 arm unit cam following tab slides along slot in this lever unit - difficult to see.
Panasonic	NVSD410	Accepts tape, moves at high speed then ejects	Capstan fast - Proc IC faulty pt no MN67434VRTA
Panasonic	NVSD410	Auto tune incomplete	C7708 0µ1 connected to pin 7 IC7708 txt proc
Panasonic	NVSD410	Int accepts tape	Dry joints capst conn P2501
Panasonic	NVSD410	No slack take up when cassette inserted	Check 2SB941 tr on heatsink (2SB1370 does)
Panasonic	NVSD410B	Display dim - otherwise works ok	D7532 22v zener leaky
Panasonic	NVSD44	Accepts tape then ejects it	IC6001 main micro MN67434VRSG (not usual capst problems)
Panasonic	NVSD44	Dead aft power surge	D1106 leaky - supplies 9.4v to pin 5 TDA4505-3
Panasonic	NVSD44	Interference in background on e-e	Dry joints in tuner - aerial amp section
Panasonic	NVSD44	No record mode	Print rots away under back up cap - bridge break with fine wire
Panasonic	NVSD44	PSU faulty	D14/15 o/c
Panasonic	NVSD44	Search tuning doesn't stop at station	No afc defeat sig reaching demod - 1st pin on demod board bent & not engaging with skt
Panasonic	NVSD44	Slow FFWD/Rew also loss of line lock	Due to wear in upper/lower drum
PANASONIC	NVSD44	SLOW REWIND WITH E240 TAPES	REPLACE REEL SENSORS PANA0N1387
Panasonic	NVSD44	Tapes int jammed in machine	mode sw
Panasonic	NVSD44B	leaves the tape out on ejecting	The Centre Clutch Assembly [part No. VXP1409] had become weakThe Centre Clutch Assembly [part No. VXP1409] had become weak
Panasonic	NVSD450	Drum runs too fast	AN3814K drum drive chip
Panasonic	NVSD450	No drum phase lock	Main 124 pin micro
Panasonic	NVSD600	No capstan	IC2501 servo chip BA6871

Panasonic	NVSJ220BS etc	Poor quality picture with white spike noise visible- similar to head static interference.	In customers Main Menu, under Functions, the settings for "SQPB"-Playback (S-VHS Quasi Playback) can be set to "ON" / "OFF" or "AUTO" (Standard ="AUTO"). In case of fault "SQPB"-setting will be set to "ON". This will effect higher FM- range (in respect to S-VHS range) but at VHS playback some signal noises which are over VHS range may create spikes in pic (related to tape material). To solve problem Menu setting for "SQPB"-Playback should be set to"AUTO"
Panasonic	NVSJ420B-S	no display / no mechs / head drum motor running very fast.	CP IP1001 o/c -small plastic device with 3 legs middle 1 cut off. Part no UNH00300A value unknown - N25 [1amp] seems closest resistance wise - used in lieu
Panasonic	NVV8000	Dirty heads symptom	No 5v supply at head amp module - P3001 plug loose on luma/chroma board
Panasonic	NVV8000	E-E & Pback pics dist & rolling	C3506/7/8 3µ3 16v on YC sep pcb
Panasonic	NVV8000 NVFS100 NVFS90	PICTURE POOR OR ROLLING	CAPACITORS IN CCD PACK
Panasonic	VEQ1107 VEQ1119	Fails to respond when scanner on/off button pressed usually happens after customer has changed batteries:	Remove batts and short the power terminals for 10 secs
Panasonic	Z Mech	RF out adj	hold remote menu key in for 5 ses then alter o/p freq with number keys
Panasonic	Z Mech NVFJ620B	Won't accept tape - loading motor not running	Check conns to motor - if ok fit new motor (driver IC integrated in motor)
Panasonic	Z Mech NVFS610	Head twitches but not spinning	4 legged hall effect device on head rotor panel replaced (used one from K deck scrapper)
Panasonic	Z mech NVHD640	F04 or F05 displayed - some times no error code & no go	Capstan motor
Panasonic	Z mech NVSD630	Loading motor lug	Available separately VDP1660 - 40p from Pan
Panasonic	Z mech NVSJ220B	No drum movement, no 14v to pin 3 IC2501	D2503/2504 11ES1 o/c pt no BOEAKL000031
PHILIPS	6770	STUCK IN STANDBY	REPLACE T7542 BC857C
PHILIPS	6776	CHANNEL NUMBER STUCK ON DISPLAY	PRESS AND HOLD 1+ BUTTON UNDER FLAP
Philips	14PV162	Sound lost on e-e aft 10 mins - ok thro scart	IC7601 SEME order code 20931548
Philips	14PV163/05	int loss of pb pic	check xtal 1800 on large pcb beneath video mechs for dry joints
Philips	14PV170/05	Loads, runs a couple of secs, stops & ejects tape	Missing reel pulses caused by C2458 10nF sm cap on main pcb leaky
Philips	14PV182	Stops aft few secs in play & slack tape on eject	clutch pt no 528-20736 worn off its retaining rim (nearest part to deck) - does not engage properly. FF & REW are ok Also can be caused by long tension dropping off or breaking its clip

Philips	14PV182/05 (Turbo)	Loads, goes briefly into rew 3 times then ffwd & ejects tape BUT no head movement apart from slight twitch	Dry joints drum lead
Philips	14PV184	R/C works on TV sect only	Handset faulty - see item on "Combis"
Philips	14PV200/07	Buzz on pback only	comes & goes when ACE ribbon cable flexed replace cable & resolder skt to pcb
Philips	14PV200/07 Apollo 20	St/by only - no bus activity	TMP93C071 micro IC7900 faulty - 120 pins!
Philips	14PV274/05	Tape stuck - OSD reports no cassette	Mechs seized. Replace worn loading gear 27 it jams. To replace; Wind mechs to threaded out posn with cass down. Remove cass housing. Remove loading arm "V" blocks (clips) Unclip & remove loading arm gears. Remove loading arm gear & replace. Refit in the reverse order.
Philips	14PV284/05	Won't accept tape - sticks halfway	Motor drive chip 7402 L2722 (4822 209 30146); Fus res 3452 2R2 0.33w (4822 052 10228)
Philips	14PV350	Ejects tape shortly after going into Play, FFWD, Rew etc	Missing Tacho signals caused by hairline cracks around optical devices on PCB under deck
Philips	14TVCR240	No audio rec (prev sountrack erased)	R3726 370k o/c on video pcb
Philips	14TVCR240	No rec or pback - looks like heads severely worn	R3405 100k hi res
Philips	14TVCR240 Turbo	Noisy wind/rew	Replace clutch item 115 & lub shaft
Philips	14TVCR240/05	Jammed cassette with grinding noise	Worm gear item 48 in CHS cat split
Philips	14TVCR240/05 Turbo	Tape jammed	Cam wheel shaft adrift from plastic chassis due to crack. Superglue shaft in correct posn (no repair kit apparently available)
Philips	20PV164	Int no mech functs - can be heard to try	Drum motor hardy rotating - poor conns pl/skt 1930 behind heads
Philips	20PV164	Timer not working	Leave set unplugged overnight to reset micro
Philips	20PV230/07	Dead - no mech functions	Check res 3464 2R2 for o/c, if it is then change IC7463 which causes o/c res - IC7463 pt no 9322-173-906-68, res 3464 4822-052-102-28
Philips	21PV688	Pic disappeared aft 5 mins & no Txt	Dry joint Xtal 1880 27Mhz
Philips	21PV688	Won't accept tapes	Deck mechs mitimed
Philips	2SB41 Turbo	No loading motor operation	R3483 2R2 feed to motor IC o/c
Philips	Charlie Deck	no e-e or pback pic - sound ok	no 5v supply to front end sub panel - L6 o/c
Philips	Charlie Deck	squeeling & revert to st/by when tape inserted	all supply lines dropping - psu replacement same - loading motor
Philips	Combis	R/C will not operate vcr section (TV sect ok)	hold down stop on the remote control and press 1 - or remove batteries & press any key
Philips	DMP Deck	Mechs jammed	rack slider gear teeth missing- replace with kit
Philips	DMP Deck	No functs except eject	Clean brake rollers & drive surfaces of reel tables
Philips	Turbo	ffwd & rew int and tape looping on eject	spring missing from brake slider ass'y

Philips	Turbo	Int tape locks up - usually after FFwd or Rew	Pinch roller ass'y
Philips	Turbo	no col in rec	faulty xtal
Philips	Turbo	no ffwd or rew	pulse roller adrift - clipped back in & now ok
Philips	Turbo	No Ffwd/Rew	Clutch gear 4822 528 20736 was the cause of this problem. Its the little double gear that lives below the idler.
Philips	Turbo	no load - arms back & fro then eject	a vane on worm shaft missing - used in lieu of mode sw
Philips	Turbo	No pic on playback - sound ok	tr7802 BC858B sm on back of main pcb s/c
Philips	Turbo	No sound in any mode	IC7001 LA7282
Philips	Turbo	slack tape on eject	pulse mech holder pt no 4822-256-92316 - pulse roller & lever bushes u/s
Philips	Turbo	Sound poor or absent in rec	1/2 load arm not returning back enough on eject so tape is in front of arm when cassette inserted. White lever which moves arm on top of main cam worn on underside - replace
Philips	Turbo	won't accept tape	putting machine into service node revealed faulty end sensor - sensor system can be replaced as a single unit
Philips	Turbo 14TVCR240	Not fully loading around heads then ejecting	Half loading arm had a missing tooth and so was not clearing 'out of the way' before the cassette was ready to 'sit on the spools' (Item 31Q in exploded deck diagram).
Philips	Turbo Deck	Back tension arm doesn't return to correct posn on unload	Fit kit B WVE 16111KB
Philips	Turbo Deck	Brakes sometimes sticking on	Fit kit part number 4822-256-92316
Philips	Turbo deck	Broken plastic lugs rec prot sw, brake pulse lever etc	Kit pt no 4822 256 92316
Philips	Turbo Deck	Deck jammed	long arm which drives master cam (item 47) crack in white cog gear so it turns on shaft. Fit repair kit'A' pt no 4822 310 31954 & pulley shaft pt no 4822 528 81462
Philips	Turbo Deck	Half lace arm doesn't return to correct posn	Arm 32F cracked - fit Kit F WVE 16115KF
Philips	Turbo Deck	Int chews tapes - back tens arm catches on load gear	Replace tension arm WVE 16442TA
Philips	Turbo Deck	Int stops in play & rec	Check clutch unit under deck, spring inside cuts a groove & rotates - item no 115
Philips	Turbo Deck	No load / unload etc - stuck in 1/2 load posn	RH gear (Item 48) on worm shaft had slid away from pinion gear so no meshing. Fit serice kit A WVE 16110KA £8.28 OR Items 47 & 48 CPC PS528-81462 £2.49 or CHS P75601 £3.00
Philips	Turbo Deck	No mech operation	Pulse roller not pushing trigger plate far enough because post that holds it is broken. Rep kit 4822 256 92316
Philips	Turbo Deck	No play - chews tape	Entry guide roller/slant pole had become detached - refitted
Philips	Turbo deck	Plays ok but locks on rew	Main cam timing slightly out
Philips	Turbo deck	Poor Tracking	Check control head is clean

Philips	Turbo Deck	Reel brakes not operating	Broken plastin pivot for pulse slider (item 110) mounted on chassis - doesn't look like replacement part but WVE stock - Holder Pulse Mech Kit pt no 16256HL
Philips	Turbo deck	Reverse lever item 31 int pushed off its mounting post	Cam had a bur in its groove - replaced
Philips	Turbo Deck	Won't accept or eject a tape - ok if manually inserted	Lighthouse led lens broken off. Only available as part of Kit G 4822 310 31961
Philips	Turbo deck	Won't REW goes into CUE not FF .	Pulse roller (part 107 in exploded diagram) dropped out of mounting under main cam worm drive (brakes staying on) .
Philips	Turbo VC260	Head drum won't spin or stiff to turn	Remove drum from head & separate Upper/lower sects. Relub & reassemble
Philips	Turbo VC522	Interference on E-E pic	C2280 & C2281 47µ 50v in psu
Philips	Turbo VR175	Loads up then ejects tape - after being dropped	INIT microsw which has plastic sleeve over contacts was perm closed ... it is possible to slide the plastic sleeve backwards which has effect of mech locking microsw
Philips	V705B	Resetting micro	Press STOP on the remote and PLAY on the front of the set. Hold both buttons for at least five seconds. The screen will then show the service menu. Use the cursor buttons on the remote to scroll down to SERVICE CONTROL and press OK. The first option should be RAM CLEAR. Highlight it if necessary then press OK or CLEAR on the remote control (depends on the remote). All user settings (tuning, timer and personal prefs) are erased and the micro is reset.
Philips	VP28/55	Loads tape then shuts down, same in eject leaving slack tape	Pinch roller spring guide had jumped out of groove on main cam. Bend it down a bit when refitting to prevent reocurrence
Philips	VR1000	No col E-E or play on VHS/SVHS or SCART	Could be corrupt EEPROM. To set up EEPROM special tool 4822 395 90915 reqd at approx £25
Philips	VR110	Tripping PSU	cracked print at pins of power trfmr
Philips	VR151	How to clean video-heads	Push "tracking" button for 10 seconds.
Philips	VR151	Picture horizontally unstable	This phenomena can occur when playing-back own recordings at higher environment temperatures. Remove C2463 to solve the problem. Introduced in production from week 9528 onwards. Attention: Since the phenomena takes place during recording, new recordings
Philips	VR1541	Dead after thunderstorm	Q1 opto 2SC4517A, Q2 2SC3616 & mains fuse
Philips	VR1541	No r/w or rview aft 10 -15 secs	Change both reel sensors
Philips	VR155	EEPROM	The EEPROMs used in these models are robust; based on the Field Call Rate feedback from many thermometer countries, they seldom fail. However due to some reasons, there were requests of this IC as a spare part, mainly because of using it as standby for fu
Philips	VR157	How to clean video-heads	Push "tracking" button for 10 seconds.
Philips	VR157	Modulator - switching on	Press stop/eject and play then hold in whilst applying mains

Philips	VR161	Display hardly or not visable	Check fuse 1403 (80 mAT) on motherboard -28 volt supply for display (Codenr. Fuse: 4822 071 58009) - Check zenerdiode 6250 on operating panel (BZX79-C12; 4822 130 34197
Philips	VR161	Does not play, cassette is ejected	If capstanmotor is not running, check the 3 wires that connect the coil-PCB to the control PCB. These PCB's are accessible by carefully removing the flywheel.
Philips	VR161	Power supply defective	Resolder 2012 and replace switching transistor T7040. Bad soldering of 2012, therefore frequency too high and T7040 and resistor burned.
Philips	VR161	Switching on/off modulator	Press (without cassette) the Install button several seconds, until the display-language is displayed. - Press Install 2 times, until MODUL is displayed. The frequency can be changed by means of the p+ / p- keys (only when the modulator is swi
Philips	VR161	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if the latter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR161	Tape immediately threaded out after inserting cassette	Check mechanically the init-switch. The white plastic part must hinge in the holes at the most backward position of this part. If the hinge is in the most front part, the init-switch is not controlled. After inserting the cassette, the tape is threaded in
Philips	VR161	To adj RF mod freq	Switch VCR to st/by, hold 'install' button until 'osd' in display. Adj freq with '+' & '-' buttons. End by pressing 'install' & then 'st/by' buttons
Philips	VR161	Totally inoperative, no display, no tape functions	Check the presence of the +33 volt and the +5v ASW. If these voltages are missing, check resistor R3080 in the power supply unit. Condenr. R 3080 (47 ohm): 4822 052 10479 (if the +33 voltage is missing, the FET 7470 does not switch on the + 5 ASW.)
Philips	VR161	White dots / stripes during playback	This phenomena can be caused by a bad contact between the turbo drive mechanism and the family board. The mechanism is grounded by the cental ground-screw, which is mounted at the bottomside of the set. Check if this screw is present and if it is well tight
Philips	VR165	Does not play, cassette is ejected	If capstanmotor is not running, check the 3 wires that connect the coil-PCB to the control PCB. These PCB's are accessible by carefully removing the flywheel.
Philips	VR165	How to clean video-heads	Push "tracking" button for 10 seconds.
Philips	VR165	Pback ctl track pulses missing	Tranny 7649 BC848 sm near IC7460
Philips	VR165	Power supply defective	Resolder 2012 and replace switching transistor T7040. Bad soldering of 2012, therefore frequency too high and T7040 and resistor burned.

Philips	VR165	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if the latter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR165	Tape immediately threaded out after inserting cassette	Check mechanically the init-switch. The white plastic part must hinge in the holes at the most backward position of this part. If the hinge is in the most front part, the init-switch is not controlled. After inserting the cassette, the tape is threaded in
Philips	VR165	Totally inoperative, no display, no tape functions	Check the presence of the +33 volt and the +5v ASW. If these voltages are missing, check resistor R3080 in the power supply unit. Condenr. R 3080 (47 ohm): 4822 052 10479 (if the +33 voltage is missing, the FET 7470 does not switch on the + 5 ASW.)
Philips	VR165	White dots / stripes during playback	This phenomena can be caused by a bad contact between the turbo drive mechanism and the family board. The mechanism is grounded by the cental ground-screw, which is mounted at the bottomside of the set. Check if this screw is present and if it is well tig
Philips	VR170-05	Dead	R3369 & R3370 39k o/c
Philips	VR171	Correction codenumbers Remote Controls in Service	Correction in the survey of Remote Controls on page 1 of the Service Manual: RT172/101 - 4822 219 10256 RT174/101 - 4822 219 10252
Philips	VR171	How to switch-off modulator	To switch-off the modulator or to change the modulator setting, act as follows: - Eject the cassette (if present) and put the set in stand-by mode ! - Press the system key on the remote several seconds until the display - gives the actual setting of t
Philips	VR171	No sound during playback or no sound recorded on tape.	Check the flatcable from the audio-sync head to the motherboard.It can happen that this cable interrupts, or that the inner leads are short-circuited to the aluminium screening. Replace the cable if defective. Codenr. flatcable: 4822 320 11889
Philips	VR175	No sound during playback or no sound recorded on tape.	Check the flatcable from the audio-sync head to the motherboard.It can happen that this cable interrupts, or that the inner leads are short-circuited to the aluminium screening. Replace the cable if defective. Codenr. flatcable: 4822 320 11889
Philips	VR175/05	OSD missing	Option code input reqs resetting - too long to list here!
Philips	VR175/05	Sound dist in Stereo Hi Fi mode	Reinitialise EEPROM; Disconnect from mains, push and hold the stand/by key for 10 secs
Philips	VR200	Slack tape on eject	clutch - CHS part number (P20736).
Philips	VR201	No erase prev soundtravk	Tr7252 BC337 leaky

Philips	VR202	Head cleaning rollers	From date code 9123 onwards the above video recorders are fitted with head cleaning rollers. The code number of the roller assembly for these models is 4822 528 70746. The roller assembly is shown on the exploded view of the deck in the service documenta
Philips	VR202	Locks up when rec r/c command	On screen display ic faulty
Philips	VR202	Modification PSU	In VCRs from WD32 onwards coil 5005 on the family board (jfb) will be replaced by a fuse. The fuse is given the position no. 1005.The fuse rating is 250mA/125 volt.The code no. of the fuse is 4822 252 51142. IMPORTANT:The fuse becomes a safety component
Philips	VR202	Poor response to Infra Red Handset operation	It is possible that VCRs of the above types and having a week code of 9042 or 9043 may not always respond to signals from the remote control handset. Cause: A small number of capacitors fitted in position numbers 2021 and 2022 on the operating panel (JDC
Philips	VR202	Replacing the combi head	After replacing the combi head the setting of the head height is referred to in Section 2:8:4 of the IDM deck manual. The method used is to set for maximum amplitude of the control track signal. In the above mentioned VCRs the signal is amplified in a
Philips	VR202	Wow on sound after replacing capstan belt	Replacement Pattern belt faulty
Philips	VR203	End Time not found when using VPT method of setting the Timer.	Some Program listings do not support this method of setting the Timer.
Philips	VR203	Poor response to Infra Red Handset operation	It is possible that VCRs of the above types and having a week code of 9042 or 9043 may not always respond to signals from the remote control handset. Cause: A small number of capacitors fitted in position numbers 2021 and 2022 on the operating panel (JDC
Philips	VR203	Replacing the combi head	After replacing the combi head the setting of the head height is referred to in Section 2:8:4 of the IDM deck manual. The method used is to set for maximum amplitude of the control track signal. In the above mentioned VCRs the signal is amplified in a
Philips	VR203	SEVERE WOW+FLUTTER	REPLACE CAPSTAN FLYWHEEL+BEARING
Philips	VR203	Won't work after rewinding tapes .	Fit brake mod kit or clean all brake surfaces etc .
Philips	VR203	Wow & flutter	Flywheel replaced which comes with bearing & service kit
Philips	VR203	Wow on sound	Idler 216 had seized bearing
Philips	VR211	Repair tip when replacing uP	After replacement of the uP by version KSDC2-4U or KSDC3-4U, problems with the adjustment of the clock can occur. Solution: delete resistors 3013, 3014, 3015 EN 3017 and adjust the clock as described in the Service Manual. (see KDC and LDC PCB) This is va

Philips	VR211	Set does not react on Remote Control	Check and replace if necessary the IR receiver on the display PCB. - for sets with IC7120 : 4822 218 10216 - for sets without IC7120 : 4822 214 33534
Philips	VR212	Repair tip when replacing uP	After replacement of the uP by version KSDC2-4U or KSDC3-4U, problems with the adjustment of the clock can occur. Solution: delete resistors 3013, 3014, 3015 EN 3017 and adjust the clock as described in the Service Manual. (see KDC and LDC PCB) This is va
Philips	VR212	Set does not react on Remote Control	Check and replace if necessary the IR receiver on the display PCB. - for sets with IC7120 : 4822 218 10216 - for sets without IC7120 : 4822 214 33534
Philips	VR2122	Stuck in Child Lock (2 arrowhead display)	hold st/by key on r/c for 8 secs (make sure hset sw to VCR1 - remove batts if not)
Philips	VR213	End Time not found when using VPT method of setting the Timer.	Some Program listings do not support this method of setting the Timer.
Philips	VR213	Repair tip when replacing uP	After replacement of the uP by version KSDC2-4U or KSDC3-4U, problems with the adjustment of the clock can occur. Solution: delete resistors 3013, 3014, 3015 EN 3017 and adjust the clock as described in the Service Manual. (see KDC and LDC PCB) This is va
Philips	VR213	Set does not react on Remote Control	Check and replace if necessary the IR receiver on the display PCB. - for sets with IC7120 : 4822 218 10216 - for sets without IC7120 : 4822 214 33534
Philips	VR223	End Time not found when using VPT method of setting the Timer.	Some Program listings do not support this method of setting the Timer.
Philips	VR223	Repair tip when replacing uP	After replacement of the uP by version KSDC2-4U or KSDC3-4U, problems with the adjustment of the clock can occur. Solution: delete resistors 3013, 3014, 3015 EN 3017 and adjust the clock as described in the Service Manual. (see KDC and LDC PCB) This is va
Philips	VR231	Audio not recorded; previous audio not erased	Remove connector from cable of erase-head and solder the wires directly on the erase-head. Check also whether metal-flakes are present in the flatcable connection of the audio-sync head. Note: touching the wires can already hide the complaint!
Philips	VR231	AUTOSTORE skips transmittors	In case of high RF voltages (> 80DB UV), some transmittors are not stored. Solution: Modify time-constant in RF-AGC circuit: R3720 becomes 1kOhm. C2724 becomes 10 uF. Introduced in production from week 9319 onwards.
Philips	VR231	Dead	start up volts low - D6115 leaky

Philips	VR231	Dead	C3125 47u 25v
Philips	VR231	Handcontrol	The correct hand control for the VR231/05 is an RT132/413. In the service documentation it incorrectly states it as an RT130/113.The code number quoted in the service documentation (4822 218 30652)is correct for an RT132/413.
Philips	VR231	Modification erase oscillator	For a better performance of the erase oscillator, the following components are modified in production: POS. 2620 - 47 nF - 4822 121 51655 POS. 2622 - 33 nF - 4822 121 43996
Philips	VR231	No col in Playback pic with jitter	Xtal 1601 poor osc - replace xtal
PHILIPS	VR231	PARTIAL LOADING	CHECK THE VANES ON THE WORM SHAFT THERE SHOULD BE FOUR
Philips	VR231	Poor tape compatibility, tracking has to reset every tape played.	Re-fit video head, heads may have sliped on the shaft.
Philips	VR231	Rattle during fast-forward	If a Turbo-drive with Fast-Forward problems is brought-in for service, Check first of all whether thooth-wheels 116 and 117 sufficiently grip in each other. If these tooth-wheels rattle-over-each-other during fast forward, replace following components: po
Philips	VR231	Sometimes cassette stocks against flap	Remount frontpanel.
Philips	VR231	Spare part information	A repair kit , containing PULLEY SHAFT + WORM SHAFT (POS. 47+48) is delivered with codenumber 4822 310 10657. This kit can be used for all TURBO- and ECO mechanisms !
Philips	VR231	Supply does not start, D6115 defective	Replace diode 6115 on supply MSM1 by a 1N4148 (4822 130 30621).
Philips	VR231	Tape not always wound back into cassette	remove cleaning roller
Philips	VR231	To adj head sw points	Enter service mode, Press 'play' on r/c & 'eject' on vcr; auto adj is released & stored in eeprom- if succesful now goes to st/by, if not ejects tape
Philips	VR231/05	Dead aft power cut	C2114 47u 25v & C2201 47u 50v
Philips	VR232	Audio not recorded; previous audio not erased	Remove connector from cable of erase-head and solder the wires directly on the erase-head. Check also whether metal-flakes are present in the flatcable connection of the audio-sync head. Note: touching the wires can already hide the complaint!
Philips	VR232	AUTOSTORE skips transmittors	In case of high RF voltages (> 80DB UV), some transmittors are not stored. Solution: Modify time-constant in RF-AGC circuit: R3720 becomes 1kOhm. C2724 becomes 10 uF.
Philips	VR232	Modification erase oscillator	For a better performance of the erase oscillator, the following components are modified in production: POS. 2620 - 47 nF - 4822 121 51655 POS. 2622 - 33 nF - 4822 121 43996

Philips	VR232	Rattle during fast-forward	If a Turbo-drive with Fast-Forward problems is brought-in for service, Check first of all whether thooth-wheels 116 and 117 sufficiently grip in each other. If these tooth-wheels rattle-over-each-other during fast forward, replace following components: po
Philips	VR232	Sometimes cassette stocks against flap	Remount frontpanel
Philips	VR232	Supply does not start, D6115 defective	Replace diode 6115 on supply MSM1 by a 1N4148 (4822 130 30621).
Philips	VR2350	poor contact cable	Experience has shown that poor contact between the plug and socket on the main panel A130 can cause heating up and carbonisation of the plastic resulting in poorer contact.In the interest of reliability, in all machines serviced remove the plug and socke
Philips	VR237	AUTOSTORE skips transmittors	In case of high RF voltages (> 80DB UV), some transmittors are not stored. Solution: Change C2703 from 22 uF to 10 uF. (In extreme situations this value can be decreased further, but not lower than 4,7 uF, to prevent instability).
Philips	VR237	Rattle during fast-forward	If a Turbo-drive with Fast-Forward problems is brought-in for service, Check first of all whether thooth-wheels 116 and 117 sufficiently grip in each other. If these tooth-wheels rattle-over-each-other during fast forward, replace following components: po
Philips	VR241	Audio not recorded; previous audio not erased	Remove connector from cable of erase-head and solder the wires directly on the erase-head. Check also whether metal-flakes are present in the flatcable connection of the audio-sync head. Note: touching the wires can already hide the complaint!
Philips	VR247	Audio not recorded; previous audio not erased	Remove connector from cable of erase-head and solder the wires directly on the erase-head. Check also whether metal-flakes are present in the flatcable connection of the audio-sync head. Note: touching the wires can already hide the complaint!
Philips	VR250	Additional feature longplay	Versions /58 sets have longplay .These sets have the tape deck :WDQT-P2/0LP
Philips	VR251	After pressing Record button, the set does not go into Record.	Check the line from Pin 10 on Scart1 and Scart2 till input pin 2 from Display control microprocessor. If one of these components on this line has a shortcut to ground, the line is low and the VCR ignored the function RECORD. Fault components in the past:
Philips	VR252	Cassette blocked.	Replace pos. 47 (4822 310 31901) or lift(4822 443 63702).
Philips	VR253	End Time not found when using VPT method of setting the Timer.	Some Program listings do not support this method of setting the Timer.

Philips	VR253	Extension Cables	Only for /55 /57 /75 From To Extension Cable Pre/Rec CN501 Main CN201 4822 321 62244 Deck Terminal CN1 Main CN601 4822 321 62128 A/C Head CN1 Main CN301 4822 32
Philips	VR253	Insufficient time allowed for timer programming.	Replace the system control microprocessor IC601 to 4822 209 33435(HD6433926A96F). After the replacement of IC601, do the followingadjustments as in the service manual.1. Connect a frequency counter to IC601 pin 64 and GND.2. Short IC601 pin 21 to IC601 pi
Philips	VR2547 JVC	Poor pback pic	Supply pole base not fully home - black plastic stopper item 120 connecting load arm to base come adrift because slit washer fell off. Stopper pt no T43525 from CHS
Philips	VR255	EEPROM	The EEPROM is used in these models are robust; based on the Field Call Rate feedback from many thermometer countries, they seldom fail. However due to some reasons, there were requests of this IC as a spare part, mainly because of using it as standby for
Philips	VR255/455	PSU FET runs hot	2 large diodes in series on pri winding of sm tfmr to FET break down under load
Philips	VR256	How to clean video-heads	Push "tracking" button for 10 seconds.
Philips	VR257	Deck moves up/down and in-/outwards.	Check uP 7410 (4822 209 90283).
Philips	VR257	How to clean video-heads	Push "tracking" button for 10 seconds.
Philips	VR257	In record mode, set switches accidentally to E1. Display gets confused	On I2C-bus there are some peaks (oscillation), which disappear whenIC7540 is loosed from bus. Replace IC7540 (SDA5649).
Philips	VR258	Accepts tape only - no mechs or eject	Check F1403 315mA wickman fuse
Philips	VR258	To sw modulator on/off	press EJECT/PLAY on machine with no cassette in. Then press OK on hset followed by tracking button. Display now shows mod on or off. To change, cont depressing Tracking button
Philips	VR262	Power supply defective	Resolder 2012 and replace switching transistor T7040. REMARK : Bad soldering of 2012, therefore frequency too high and T7040 and resistor burned.
Philips	VR262	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if the latter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.

Philips	VR266	Continuously "tracking" in display	Check circuit around bridgewire (jumper) 9604. Probably one of the solderpads has come loose. In this way the control pulses coming from the CTL-head are not connected to the IC7460 (SAA1310) and the deck- processor does not get control pulses, and stays
Philips	VR266	Display hardly or not visable	- Check fuse 1403 (80 mAT) on motherboard -28 volt supply for display (Codenr. Fuse: 4822 071 58009) - Check zenerdiode 6250 on operating panel (BZX79-C12; 4822 130 34197
Philips	VR266	Does not play, cassette is ejected	If capstanmotor is not running, check the 3 wires that connect the coil-PCB to the control PCB. These PCB's are accessible by carefully removing the flywheel.
Philips	VR266	How to erase memory	- switch off power supply. - press button "LOW-POWER / STAND-BY" on the set while switching on the power supply. - release button "LOW-POWER / STAND-BY" if horizontal stripes (--:--) appear in the display of the VCR. All channels and timing-bl
Philips	VR266	How to switch modulator on/off	Press simultanuously buttons "EJECT" and "PLAY" on set. The actual position of the modulator is now displayed. By pressing the right cursor during 5 seconds, the modulator can be switched-on or switched-of.If the modulator is switched-on, the output frequ
Philips	VR266	Modulator inoperative (on easylink TV)	When the VCR is connected to a TV set that supports easy-link, the modulator is automatically switched off, and cannot be switched on again.
Philips	VR266	Power supply defective	Resolder 2012 and replace switching transistor T7040. REMARK : Bad soldering of 2012, therefore frequency too high and T7040 and resistor burned.
Philips	VR266	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if the latter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR266	Tape immediately threaded out after inserting cassette	Check mechanically the init-switch. The white plastic part must hinge in the holes at the most backward position of this part. If the hinge is in the most front part, the init-switch is not controlled. After inserting the cassette, the tape is threaded in

Philips	VR266	Totally inoperative, no display, no tape functions	Check the presence of the +33 volt and the +5v ASW. If these voltages are missing, check resistor R3080 in the power supply unit. Condenr. R 3080 (47 ohm): 4822 052 10479 (if the +33 voltage is missing, the FET 7470 does not switch on the + 5 ASW.)
Philips	VR266	White dots / stripes during playback	This phenomena can be caused by a bad contact between the turbo drive mechanism and the family board. The mechanism is grounded by the cental ground-screw, which is mounted at the bottomside of the set. Check if this screw is present and if it is well tig
Philips	VR268	Continuously "tracking" in display	Check circuit around bridgewire (jumper) 9604. Probably one of the solderpads has come loose. In this way the control pulses coming from the CTL-head are not connected to the IC7460 (SAA1310) and the deck- processor does not get control pulses, and stays
Philips	VR268	Display hardly or not visable	- Check fuse 1403 (80 mAT) on motherboard -28 volt supply for display (Codenr. Fuse: 4822 071 58009) - Check zenerdiode 6250 on operating panel (BZX79-C12; 4822 130 34197
Philips	VR268	Does not play, cassette is ejected	If capstanmotor is not running, check the 3 wires that connect the coil-PCB to the control PCB. These PCB's are accessible by carefully removing the flywheel.
Philips	VR268	Modulator inoperative (on easylink TV)	When the VCR is connected to a TV set that supports easy-link, the modulator is automatically switched off, and cannot be switched on again.
Philips	VR268	Power supply defective	Resolder 2012 and replace switching transistor T7040. REMARK : Bad soldering of 2012, therefore frequency too high and T7040 and resistor burned.
Philips	VR268	Rec pic fades out to snow & no LP recs	No control track rec pulses - Link 9604 by threading belt broken
Philips	VR268	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if the latter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR268	Tape immediately threaded out after inserting cassette	Check mechanically the init-switch. The white plastic part must hinge in the holes at the most backward position of this part. If the hinge is in the most front part, the init-switch is not controlled. After inserting the cassette, the tape is threaded in
Philips	VR268	Totally inoperative, no display, no tape functions	Check the presence of the +33 volt and the +5v ASW. If these voltages are missing, check resistor R3080 in the power supply unit. Condenr. R 3080 (47 ohm): 4822 052 10479 (if the +33 voltage is missing, the FET 7470 does not switch on the + 5 ASW.)

Philips	VR268	White dots / stripes during playback	This phenomena can be caused by a bad contact between the turbo drive mechanism and the family board. The mechanism is grounded by the cental ground-screw, which is mounted at the bottomside of the set. Check if this screw is present and if it is well tig
Philips	VR268/01	Specification	The /01 version of the VR268 is without PDC.The commercially sold set in the Netherlands with PDC is the /02 version.
Philips	VR277	No sound during playback or no sound recorded on tape.	Check the flatcable from the audio-sync head to the motherboard.It can happen that this cable interrupts, or that the inner leads are short-circuited to the aluminium screening. Replace the cable if defective. Codenr. flatcable: 4822 320 11889
Philips	VR285	Tape stuck	Bevel gear on main shaft & main cam worm drive gear loose - replace both items - part no 4822 310 10657
Philips	VR288	"STILL" picture performance of head VCR's	Traditionally, 2 head VCRs can not produce an LP recording and playback. Due to advancement in technology especially in the field of mechanical precision in the manufacturing of Video Heads, it is now possible to record and playback SP and LP pictures wi
Philips	VR297	adjusting OSD position	Sometimes, after changing the EEPROM, or in case of a slight deviation in component values, the OSD menu from the VCR will be displayed out off center on the TV screen. In order to adjust the position of the OSD menu to the center again, please follow the
Philips	VR299 etc	To enable/disable childlock	Hold Power button on r/c for 7 secs
Philips	VR312	Change of threaded in time after rewind	After rewind to tape begin, the above VCRs go to the threaded in position. If no function is requested, after 6 minutes the VCR dethreads to the stop position where it stays for 2 minutes before returning to standby. From week 41 the waiting time at thre
Philips	VR312	No rec sound - int	Mute stays on when chan changed - o/c print rh side edge of pcb which carries AFC sig
Philips	VR322	Int ejects when tape inserted - capst motor stalls	Could be dead spot on motor, A quick check in the service mode (hold play on the machine and stop on the handset for more than 4 seconds) gave an error code which indicated a stalled capstan motor
Philips	VR322	No R/c	TMP47C1670N chip
Philips	VR322	No r/c op	Check vcr set to correct vcr - to change press 2 'set clock' buttons together then 'select', then 2 'set clock buttons' again
Philips	VR323	Buzzing and whistling noises heard on E to E and playback.	Noticeable mainly in quiet passages, OK through SCART. Replace modulator.
Philips	VR323	End Time not found when using VPT method of setting the Timer.	Some Program listings do not support this method of setting the Timer.

Philips	VR323	Mechs jammed - won't work when freed	IC40 SAA1310 internal s/c
Philips	VR323	Scrambled txt	SAA5231 txt chip
Philips	VR323	Sound not being rec - erases prev sound ok	Tr7252 BC337-40 faulty, e.c. leak one direction only
Philips	VR3242	Dead & no display	only 4.2 volts to main micro pin1 IC601. C25-680uf/10 v & C32 470uf/10 v in power module
Philips	VR332	Audio not recorded; previous audio not erased	Remove connector from cable of erase-head and solder the wires directly on the erase-head. Check also whether metal-flakes are present in the flatcable connection of the audio-sync head. Note: touching the wires can already hide the complaint!
Philips	VR332	Service manual correction	The adjustment of the clock frequency on page 3-6 of the service documentation states that "all the segments of the display are lit and a 5 volt square wave signal has been applied to the frequency counter". The paragraph should read "none of the display
Philips	VR332	Supply does not start, D6115 defective	Replace diode 6115 on supply MSM1 by a 1N4148 (4822 130 30621).
Philips	VR333	Interference distortion on Channel 4+	delete C2520. - interrupt the print-track to pin 6 of modulator. - mount coil of 6,8 uH (4822 157 52285) between pin 6 of modulator and the emittor of transistor 7500.
Philips	VR356	Bad picture; set blocks.	Replace pos. 33 (4822 691 20937).
Philips	VR362	Power supply defective	Resolder 2012 and replace switching transistor T7040. Bad soldering of 2012, therefore frequency too high and T7040 and resistor burned.
Philips	VR362	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if the latter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR412	dead	start up res R103 in pri of psu o/c
Philips	VR422	Black spots in case of still picture	Change C2093 to 120 pF (was 1 nF). Change R3126 to 150 Ohm (was 470 Ohm).
Philips	VR422	Blank raster/no sound all modes	The +12a supply missing - R3151 & R3147 6R8 o/c
Philips	VR422	Brightness of display irregular	To improve the brightness of the FTD display, modify the following components: - R3209 in the LSM45 supply from 10 Ohm to 4,7 Ohm (4822 116 83082) - Replace R3053 on the display panel by a wire jumper.
Philips	VR422	Cassette jammed with ticking or dead	C2114 47µ 25v in psu
Philips	VR422	Head Drum Speed too fast from power up.	The cause of this fault was identified as being caused by the Head Motor Drive I/C on the Head Amplifier PCB.
Philips	VR422	Int mistracking/poor pback	IC7301 TDA5140 drum motor drive chip

Philips	VR422	Intermittently mistracking, noise bar appears.	Line sync switching at top of picture. Determine if the fault is on the head amp pack. If it is, `scope the PG/FG pulses from pin 6 of L1 on the head amp pack. Check to see if there is a synchronising pulse, i.e. a wider pulse, present within the head
Philips	VR422	No pback - blank screen only - sound ok	IC7501 LA7391A
Philips	VR422	No RF o/p - scart ok	Module switched off - no option to sw it on - Reset micro by depressing "Play", "St/by" & "Eject" together whilst plugging in vcr
Philips	VR422	Rattle during fast-forward	If a Turbo-drive with Fast-Forward problems is brought-in for service, Check first of all whether thooth-wheels 116 and 117 sufficiently grip in each other. If these tooth-wheels rattle-over-each-other during fast forward, replace following components: po
Philips	VR422	Sometimes no rewind	Replace deck processor IC7010. Codenumber is 4822 209 31526.
Philips	VR422	The tape is not taken up to the audio control head.	If any function is selected, the cassette is ejected or the machine locks up. Try loading the machine without a tape. If the sub loading arms take up, suspect a problem with main cam wheel. Check the main runner, especially the `V' notch where the sub-l
Philips	VR422	To adj head sw points	Play align tape, hold down 'play' whilst adj pot 3112 on back of main pcb
Philips	VR422	To enter service mode	Press 'stop' on r/c & play on vcr for 5 secs
Philips	VR422	When tape inserted does not half load	Replace cam wheel, notch sheared
Philips	VR422 Turbo	Dead, no display or functs	47µ 16v in PSU pri o/c - also check caps in sec of psu
Philips	VR422 Turbo	Mechs ok but no pic or osd	R3147 & R3151 6R8 0.6w - failed due to heavy weight on top of case
Philips	VR437	Dead aft spillage	IRFBC30 chopper tr s/c, R3109 3R3 dropper o/c, opto isol 7210 SOC1012 & Power chip TDA4605-3
Philips	VR437	No E-E or tuning - no 33v to tuner pin 11	o/c print by PL1914 pin 8 (I/p to main pcb from psu)
Philips	VR447	Audio not recorded; previous audio not erased	Remove connector from cable of erase-head and solder the wires directly on the erase-head. Check also whether metal-flakes are present in the flatcable connection of the audio-sync head. Note: touching the wires can already hide the complaint!
Philips	VR447	Lisping "S" when recording in LP mode	Depending on the modulation-depth, an overshoot can occur with long-play recordings, resulting in a lisping "S". Solution: replace R3615 (390 Ohm) by a resistor of 1 kOhm (4822 051 10102)
Philips	VR447	No colour.	Replace IC LA7191.
Philips	VR447	No loading	Trace fault to o/c res. 3473 2.2 Ohm feed to theading motor IC.
Philips	VR447	No sound any mode	replace IC7001 LA7282 which is responsible for sound record and playback. The E-E sound also passes through it.

Philips	VR447 (Turbo)	Clicking noise from power supply	Check cable from PSU to main pcb prorely inserted
Philips	VR447 (Turbo)	No display	Wickman fuse near psu cable
Philips	VR447 (Turbo)	No mechs - play shows when selected	L1 on head amp board
Philips	VR447/05	E-E sound present in Pback	Sus IC7601 control chip - 64 pins!
Philips	VR453	End Time not found when using VPT method of setting the Timer.	Some Programme listings do not support this method of setting the Timer.
Philips	VR4547	Mechs jamming	Replace mode sw & reel sensors
Philips	VR4547	No col on Pback of pre-recs	Pin 19 of pre-amp skt on main board pushed in (Col Rot)
Philips	VR4557/05 (JVC)	Won't accept tape - loading mech very slack	Nylon pin had broken off change arm assy - possible to weld back in place with soldering iron - beware leaf spring at bottom of psu does not s/c anything
Philips	VR459	Bad recording; REC button does not function.	Check/replace IC7101 (4822 209 90299).
Philips	VR459	How to clean video-heads	Push "tracking" button for 10 seconds.
Philips	VR465	No PDC function	Error in leaflet. The VR465/02 VCR has no PDC support. This VCR only has SHOWVIEW and VPS.
Philips	VR465	Totally inoperative, no display, no tape functions	Check the presence of the +33 volt and the +5v ASW. If these voltages are missing, check resistor R3080 in the power supply unit. Condenr. R 3080 (47 ohm): 4822 052 10479 (if the +33 voltage is missing, the FET 7470 does not switch on the + 5 ASW.)
Philips	VR468	Modulator inoperative (on easylink TV)	When the VCR is connected to a TV set that supports easy-link, the modulator is automatically switched off, and cannot be switched on again.
Philips	VR468	Power supply defective	Resolder 2012 and replace switching transistor.Bad soldering of 2012, therefore frequency too high and 7040 and resistor burned.
Philips	VR468	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if thelatter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR468	Tape immediately threaded out after inserting cassette	Check mechanically the init-switch. The white plastic part must hinge in the holes at the most backward position of this part. If the hinge is in the most front part, the init-switch is not controlled. After inserting the cassette, the tape is threaded in
Philips	VR468	Totally inoperative, no display, no tape functions	Check the presence of the +33 volt and the +5v ASW. If these voltages are missing, check resistor R3080 in the power supply unit. Condenr. R 3080 (47 ohm): 4822 052 10479 (if the +33 voltage is missing, the FET 7470 does not switch on the + 5 ASW.)
Philips	VR475	Bad picture via SCART	Remove short-circuit between earth spring of bottom and PCB.

Philips	VR475	No sound during playback or no sound recorded on tape.	Check the flatcable from the audio-sync head to the motherboard.It can happen that this cable interrupts, or that the inner leads are short-circuited to the aluminium screening. Replace the cable if defective. Codenr. flatcable: 4822 320 11889
Philips	VR497	Dead	Chopper Q901 (2SK2632/ BUK444-600/ 2SC3795),D909 (Z27B/ 27V) zener, Q902 (D1445/ BC639), R905 (0R39/ 1w)Sec prot D955 (Z15B/ 15v) zener
Philips	VR497	Dead apart from brief showing of display at power up	C971 (220µ 10v) in the power supply
Philips	VR501/58	No sound reception of DK transmitters in VHF band 1 and 2.	Reason : During reception of a DK transmitter in band 1 and 2 the software doesn't switch in the stereo decoder MSP3415D to DK . The DK sound (6.5MHz) is missing. Solution : Replace the 'All In One' µP pos. 7899 on MOBO. Background Information: From sof
Philips	VR502	All control functions lock up when the E to E mode is selected.	Suspected fault to be on control board. Upon investigation, fault was found to be IC 7450 (P8032).
Philips	VR502	Int capstan rotates fast	C2316 22n sm cap int leaky
Philips	VR502	No col in Pback	No wfm at pin 1 IC7151 - T7109 o/c
Philips	VR502	Int r/c op	dry joints on IR Rx chip IC121
Philips	VR510/07 Apollo 12	E-E pic int disappears to blank raster & no sound any mode	TDA9605H audio proc chip - 9v supply was low & F1509 100mA fuse failed due to chip drawing excess current
Philips	VR512	Cassette ejected when switching from REVERSE to NORMAL	Phenomenon mostly occurs in case of high environment temperatures. Mount an electrolytic capacitor of 47uF - 25 V on the WDFBU-PCB on position 2342 (PCB is prepared to this intervention).
Philips	VR512	White "fishes" in picture	Low-output tapes can generate white "fishes" in the picture. This can be solved by applying a metal screen across the connections of the head-amplifier (4822 466 82784). Solder this screen to earthpoint of head-amplifier and to chassis.
Philips	VR522	Analogue sound - just hiss - NICAM ok	IC7820 TDA3867T
Philips	VR522	Brightness of display irregular	To improve the brightness of the FTD display, modify the following components: - R3209 in the LSM45 supply from 10 Ohm to 4,7 Ohm (4822 116 83082) - Replace R3053 on the display panel by a wire jumper.
Philips	VR522	Dead	Check psu caps espec C2112 100µ low value
Philips	VR522	Deck threaded very slowly	Motor pos.38 defective. Replace motor (4822 361 21486).
Philips	VR522	Ejects when funct selected	Back tension arm had ridden up shaft - jamming supply guide roller
Philips	VR522	Forward and reverse winding do not work.	Broken spring (121).
Philips	VR522	In playback, sound switches into FM audio instead of linear mode.	On checking around IC 7202(TDA2515A) the fault may stop. This fault was cured by replacing R3226 (10Kohm) and C2208 (22nf).

Philips	VR522	Jammed mechs	Entry guide fallen off loading arm - refit
Philips	VR522	Non-sharp picture with LA7391	Deemphasis modified C2038 = 47pF, R3028 = 3K3.
Philips	VR522	PSU 'chirping' with o/ps low	C2112 100µ 385v low cap
Philips	VR522	Rattle during fast-forward	If a Turbo-drive with Fast-Forward problems is brought-in for service, Check first of all whether thooth-wheels 116 and 117 sufficiently grip in each other. If these tooth-wheels rattle-over-each-other during fast forward, replace following components: p
Philips	VR522	Set is dead, power ticking	Replace D6209, C2214, C2215.
Philips	VR522	Sometimes cassette stocks against flap	Remount frontpanel.
Philips	VR522	Sometimes no rewind	Replace deck processor IC7010. Codenumber is 4822 209 31526.
Philips	VR522	Sometimes no synchronisation puls.	Replace microprocessor LUTD8-2U by LUTD8-4U. Code number 4822 209 31526
Philips	VR522	Sound switches into FM audio mode instead of linear mode.	Phenomena only occurs in playback mode. On checking around IC 7202(TDA2515A) the fault may stop. This fault was cured by replacing R3226 (10Kohm) and C2208 (22nf).
Philips	VR522	Stereo LED sometimes lighting up during MONO reception	Mount a second 5,74MHZ filter between pin 3 of pos. 1824 and pin 22 of IC7820. This filter can be mounted easily after deleting chip jumper 3934. Do not forget to remove lacquer below the chip jumper. Codenumber 5.74 Mhz filter 4822 242 81257).
Philips	VR522	Very snowy picture on E to E when video connected to TV via RF.	Check 5 volts on modulator. If no voltage, check coil 5671 - coil may be missing.
Philips	VR522	When load is connected to power supply, the voltages are pumping.	Check elco C2112 (100uF/385V; 4822 124 41556). The capacitance is decreased, but the rippel is not seen in oscilloscope.
Philips	VR572 etc	Dead with 320v across C2318	7302 2SK2750, 7303 MC44608 & 7300 TCET1101G & D6307 BAV21 leaky
Philips	VR597	PSU blow up	Replace D901 bridge rect, Q901 2SK2632-C814, Q902 2SD2144S, R905 0R39 1w, PC901 PC123F2 opto coupler
Philips	VR600 Turbo	Accepts tape then ejects immediately with large tape loop.	Cure: Tighten and refit white plastic cover/actuator on INIT switch 1460 (main pcb).Switch had stuck permanently closed as cover had slipped off its lugs
Philips	VR600 Turbo	VCR1 appears in display when R/C operated only	Reset R/C to VCR1 by pressing "Select" & "1" together then "OK"
Philips	VR600/05 Apollo 11	Poor pic in Rec & Pback - same thro scart	C2012 4µ7 in de emphasis cct o/c
Philips	VR6180	Coloured stripes at the top of the picture	Coloured stripes at the top of the picture when playing a pre recorded tape especially camcorder recordings. Change R3130 to 1K5 ohms (4822 051 10152) from 680 ohms.
Philips	VR6180	Coloured strips at the top of the picture when playback.	Change R3130 to 1K5 ohms (4822 051 10152) from 680 ohms. The strips can be seen more clearly especially on the camcoder recording.

Philips	VR6180	Jammed tape in fully loaded posn	Small plastic lever 260 had flap broken off - replacement not a job for the faint hearted!
Philips	VR6180	Lift protection hook not released on cassette insertion	Damp the tacho head with a 15K surface mount resistor mounted directly onto the solder tags of the head.Reason:Threading motor not energised sufficiently. Pulses of interference on the tacho head confuses the system into thinking the motor is running fast
Philips	VR6180	No playback f.m.	Lower drum earthing bracket loose
Philips	VR6180	Random changes to the month and year indications	Reason: Static discharges in the vicinity of the VCR corrupt the data. Solution: An improvement in the immunity of the machine to this static is acheived by fitting a 22 nanofarad capacitor (service code 4822 122 10166) between pins 4 and 8 of IC7450 (PC
Philips	VR6185	chopper tr keeps blowing	D1016 s/c
Philips	VR6185	No auto stop in rew	lighthouse led in deck centre o/c
Philips	VR620 Turbo	Head sticking/binding	Remove upper cylinder & lub - special head puller reqd
Philips	VR6290	Coloured stripes at the top of the picture	Change R3130 to 1K5 ohms (4822 051 10152) from 680 ohms. REMARKS : The strips can be seen more clearly especially on the camcoder recording.
Philips	VR6290	Dead	Replace opto coupler, chopper tr & surge lim res
Philips	VR6290	Dead - caused by mains spikes	Fit mod kit to sets with WD00-WD05 code. SBC7013 pt no 4822 310 31817
Philips	VR6290	Intermittent shutdown when a play or record function is selected.	Reduce the value of C2040 on "P268" from 100 nF to 10nF (4822 121 51304). Head motor does not rotate due to too much brake force and too low motor current for startup.
Philips	VR6290	Motor shuffles & display flashes	Opto CNX83A
Philips	VR6290	No playback sound - ok when heated	C201 4µ7 50v leaky
Philips	VR6290	No response from any keyboard command, mains reset has no effect.	Protection built into the software against low volts from the back-up battery.Send the machine a string command from an LCD handset, e.g. load into the remote control handset the details for programming a timer recording and send it to the VCR as a string
Philips	VR6290	No response from any keyboard command.	Send the machine a string command from an LCD handset, e.g Load into the Remote Control handset the details for programming a timer recording and send it to the VCR as a string by pushing the transmit button.
Philips	VR6290	Power off/on behaviour due to mains interference spikes.	Clean all the surfaces and screws threads which are covered with any lacquer or similar insulating materials that may be present. Pay particular attention to the screw and bracket adjacent to the RF modulator.

Philips	VR6290	Recorded sound level intermittently decreases	Recorded sound level intermittently decreases, sometimes to zero, or the sound and vision of a previous recording are not erased.The erase oscillator coil position 5252 is temperature dependant. Replace position 5252 with service code 4822 157 53531.
Philips	VR6290	Tape won't eject with display flashing on/off	IC7124 CNX83A Opto coupler
Philips	VR6290	The word "TRACK" is permanently present on the front display.	After changing the deck control microprocessor (IC7140), the word "TRACK" is permanently present on the front display.Incompatibility between the machine's original control panel microprocessor (IC7101) and the replacement deck control microprocessor
Philips	VR6291	dead after storm	started working ok with fizzing noise - opto isol CNX83A
Philips	VR6291	Intermittent shutdown when a play or record function is selected.	Reduce the value of C2040 on "P268" from 100 nF to 10nF (4822 121 51304). Head motor does not rotate due to too much brake force and too low motor current for startup.
Philips	VR6291	Shuts down aft ½ hr	R247 270R overheating, also replace CNX83A opto & T246 BC547
Philips	VR6293	Intermittent shutdown when a play or record function is selected.	Reduce the value of C2040 on "P268" from 100 nF to 10nF (4822 121 51304). REMARKS : Head motor does not rotate due to too much brake force and too low motor current for startup.
Philips	VR630	Tape not fully ejecting - catches	catch on RH side of housing doesn't correctly latch - replace or reshape
Philips	VR632	AUDIO level too low	Adjust R3390 (PBL) again on 40 mVolt +/- 0.5 DB. by means of HIFI testcassette. See Service Manual of VR632, 732, 733 and 833 page 3-3 chapter 2.6.2.
Philips	VR632	Does not accept cassette	Replace kit I 4822 310 31963
Philips	VR632	Rattling capstan and unstable picture	Check/replace C 2082 (5322 126 10223; DECK electronics). See Service Manual page 3-15
Philips	VR6349	Cassette cannot insert.	Replace reel disc assembly with new one. Take-up reel disc assembly (4822 528 81242). Supply reel disc assembly (4822 528 81243)
Philips	VR6349	Intermittent no operation of the VCR.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6349	Noise appear in picture during playback.	1. Add two 3.0 mm spring washer 4822 530 80082 underneath the two screws 232. 2. Tighten the screws 232 with 9-10 kg.cm (0.9-1 Nm).
Philips	VR6349	The VCR does not go into the "eject" mode.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6349	Threading car tangled by the tape tension stabilizer.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6362	Dead	Tr7001 BD436, C119/C120 1000µ 16v, C127 1µ 50v, C126 10µ 50v & C12 10µ 50v
Philips	VR637	Rattling capstan and unstable picture	Check/replace C 2082 (5322 126 10223; DECK electronics). See Service Manual page 3-15

Philips	VR642	How to erase the memory	Press buttons "SPEED-UP" and "SPEED-DOWN" while switching on power supply. By doing so, the data stored by the customer, is erased (Programmnumbers, time, year etc). See also page 2-1 of service Manual VR642/647/747 - NORA 6/7.
Philips	VR642	No colour with commercialised pre-recorded tapes	Modify following components : R 3842 was 3,3 kOhm - becomes 2,7 kOhm (4822 051 20272). R 3700 was 330 Ohm - becomes 180 Ohm (4822 051 20181).
Philips	VR642	No or bad video output-signal	If the VCR is connected to a SCART input with high input impedance, mount 470 Ohm accross pins 19 and 21 of SCART1 or SCART2 connector. This ensures the right set-up for emitterfollower 7345 (SCART-1) and/or emitterfollower 7348 (SCART-2).
Philips	VR642	Set blocks after some minutes in play or record	Replace SAA1310, IC7040 on the family board.
Philips	VR642/56	Shuts down with squeal aft 2 secs	C126 & C127 1000µ 25v on sec of psu
Philips	VR6443	Entangled tape or reel not rotating	Exchange with new reel drive unit and clean up at the reel disc. REMARKS :The new reel drive unit is 4822 528 70504.
Philips	VR6443	The capstan motor stops rotation and STANDBY mode is activated.	Replace with new motor. Codenumber 4822 361 60461. REMARKS :This occurs after 10 minutes of playback or recording.
Philips	VR6448	Cassette cannot insert.	Replace reel disc assembly with new one. REMARKS : Take-up reel disc assembly (4822 528 81242). Supply reel disc assembly (4822 528 81243)
Philips	VR6448	Intermittent cassette eject.	Replace pinch roller lever assembly.
Philips	VR6448	Intermittent cassette stuck.	Replace pinch roller lever assembly.
Philips	VR6448	Intermittent recording mode.	Replace pinch roller lever assembly. REMARKS : Blank tape may be ejected when operate rec mode
Philips	VR6448	Intermittent rewind and fast forward.	Replace with new idler gear assembly. Codenumber 4822 522 32497. REMARKS :Search VS/REW VS/FFW are working normally.
Philips	VR6448	Noise appear in picture during playback.	1. Add two 3.0 mm spring washer 4822 530 80082 underneath the two screws 232. 2. Tighten the screws 232 with 9-10 kg.cm (0.9-1 Nm).
Philips	VR6448	Tape not loaded	Replace whole mechanical assembly.
Philips	VR6448	The mechanism refuses a loading when inserting cassette tapes.	Resolder the cassette LED wires.
Philips	VR6448	The VCR does not go into the "eject" mode.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6448	Threading car tangled by the tape tension stabilizer.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6449	Intermittent no operation of the VCR.	Replace the tension adjusting lever by a new model lever (4822 403 53539).

Philips	VR6449	Noise appear in picture during playback.	1. Add two 3.0 mm spring washer 4822 530 80082 underneath the two screws 232. 2. Tighten the screws 232 with 9-10 kg.cm (0.9-1 Nm).
Philips	VR6449	The VCR does not go into the "eject" mode.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6449	Threading car tangled by the tape tension stabilizer.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6462	clock losing time	dry joints ribbon cable to front pcb
Philips	VR6462	No sound any mode	C2007 330µ 16v on audio panel
Philips	VR6462	Replacement combi head	The original combi head 4822 249 10222 used in VR6462, VR6660 and derived sets; is now replaced by the combi head 4822 249 10352. The new head has a different socket and the connecting wires need to be soldered onto the print side of the combi head PCB
Philips	VR6467	Loss of the +10c supply to the signal panel P306	Check C2329 on P306 for short circuit, which as a result may have damaged T7304 on P306, and or T7607 on P607-2a.
Philips	VR6467	Rolling pics all modes	220nf 100v pin 2 decoupler TDA3755 IC7451 dry joints
Philips	VR647	AFC problem	Replace TDA3853T on family board; 4822 209 33366
Philips	VR647	Eject inoperative; accepts no cassette	Replace kit 4822 310 31954
Philips	VR647	No display	Replace display IC 4822 209 33608
Philips	VR647	No or bad video output-signal	If the VCR is connected to a SCART input with high input impedance, mount 470 Ohm accross pins 19 and 21 of SCART1 or SCART2 connector. This ensures the right set-up for emitterfollower 7345 (SCART-1) and/or emitterfollower 7348 (SCART-2). The phenomena
Philips	VR647	No sound	Replace LA7282 pos. 7220; 4822 209 32494
Philips	VR647	Set blocks after some minutes in play or record	Replace SAA1310, IC7040 on the family board.
Philips	VR6485	Timer programmes are not recorded	Add 150pF tubular capacitor (5322 122 10237) between pins 46 and 32 and between pins 47 & 32 on IC7101 the front control microprocessor. REMARKS : The VCR having switched itself onto the tuner node whilst unattended.
Philips	VR6490	dead	plug J104 o/ps - pin 4=-21.8v; pin5=0v; pin 6= 5.5v; pin 9= 14.8v; pin10= 33.8v pin 6 volts was low - C119 & C120 1000µ 16v
PHILIPS	VR6490	DEAD	REPLACE C119 AND C120 BOTH 1000MFD16V
Philips	VR6490	Dead	Check C638 1µ, R534 3R3 & R102 330k
Philips	VR6490	No functions - psu faulty	Check T7101 BC548C, T7102 BC558C, T7103 BC635, T7104 BUT11AF, D6101-4 1N5062, zener D6108 BZV85-C5V1 & res R3118/3104
Philips	VR6490/O5	DEAD OR DISPLAY FLASHES ON AND OFF AS MECHANISM CLUNKS THEN GOES DEAD	REPLACE BOTH 16v 1000uF CAPACITORS IN PSU CAN

Philips	VR652	First TIMER-BLOCK cannot be erased	Check the EEPROM (pos. 7270) on the family board. The phenomena often occurs with IC's produced by CSI. PCS only supplies IC's from manufacturers ST. MAI or ATMEL. Codenumber is 4822 209 33548.
Philips	VR652	How to clean video-heads	Push "tracking" button for 10 seconds.
Philips	VR652	How to play NTSC tapes	NTSC tapes can be played-back if recorded in SP (STANDARD PLAY) or EP (EXTENDED PLAY) speed. The latter is sometimes also called SLP (SUPER LONG PLAY) Tapes recorded in LP (LONG PLAY) speed cannot be play-backed. Note: The VCR converts the tapes to 60 Hz
Philips	VR652	No display; lift continuously moves upwards/downwards	Check invertors 7268 and 7269 for leackage, causing I2C-conflicts. Check as follows: - short-circuit B-E - If no voltage on collector: invertor OK. - If voltage on collector: replace transistor / Codenumber is 5322 130 41983).
Philips	VR652	Set blocked, display dark, head disk makes small movements	Replace T7261 and T7262 on Family board.
Philips	VR6542	Threading mechs jammed	Master cam broken plastic, replaced cam, mode sw & belts
Philips	VR6543	The capstan motor stops rotation and STANDBY mode is activated.	Replace with new motor. Codenumber 4822 361 60461. REMARKS :This occurs after 10 minutes of playback or recording.
Philips	VR6547	Dead	C12 2µ2 50v in psu
Philips	VR6547	Dead aft power cut	C12 2µ2 63v, C31 22µ 63v, C41 22µ 50v in psu
PHILIPS	VR6547	E-E GOES BLANK	REPLACE IF UNIT PHIL482221010616
Philips	VR6547	E-E pic & sound constantly blanking out	C206 0u1 50v in IF module (smaller of the 3)
PHILIPS	VR6547	INT BLANKING PICTURE AND LOSS OF SOUND	ADJUST AGC POT ON TOP EDGE OF IF PCB NEW IF MODULES MAY NEED ADJUSTED
Philips	VR6547	White hor bands/interference on e-e	If a electrolytiv cap connected to pin tuner & 0v cures it replace C118 4µ7 50v in IF can
Philips	VR6547 JVC	Shuts down to st/by in rew	Check reel sensors for dry joints
Philips	VR6547/05	Blank raster & no sound in E-E - OK in Pback	IF module faulty - replaced the following hi esr caps:- C207 33µ, C002 47µ, C112 47µ, C111 0µ22, C609 10µ 16v, C118 4µ7, C118 0µ47 but not until C206 0µ1 elect cap replaced with ceramic type was fault cured
Philips	VR6548	Intermittent cassette stuck.	Replace pinch roller lever assembly.
Philips	VR6548	Intermittent no operation of the VCR.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6548	Intermittent recording mode.	Replace pinch roller lever assembly. REMARKS : blank tape may be ejected when operate rec mode

Philips	VR6548	Intermittent rewind and fast forward.	Replace with new idler gear assembly. Codenumber 4822 522 32497. REMARKS :Search VS/REW VS/FFW are working normally.
Philips	VR6548	Noise appear in picture during playback.	1. Add two 3.0 mm spring washer 4822 530 80082 underneath the two screws 232. 2. Tighten the screws 232 with 9-10 kg.cm (0.9-1 Nm).
Philips	VR6548	Power turns off when selecting stop or eject mode.	Insert the spring into lever pin of tension arm and upper position of lever pin must be melted by soldering iron. REMARKS :If the pole base (position no. 76,73) does not return smoothly puring stop mode, change the relay gear drive lever (position no. 3
Philips	VR6548	The mechanism refuses a loading when inserting cassette tapes.	Resolder the cassette LED wires.
Philips	VR6548	The VCR does not go into the "eject" mode.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6548	Threading car tangled by the tape tension stabilizer.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6549	Intermittent no operation of the VCR.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6549	Noise appear in picture during playback.	1. Add two 3.0 mm spring washer 4822 530 80082 underneath the two screws 232. 2. Tighten the screws 232 with 9-10 kg.cm (0.9-1 Nm).
Philips	VR6557	dead	check wickman fuse CP801 N20
Philips	VR656	Adjustment clock frequency	To adjust the clock frequency, pin 7 of IC 7265 has to be connected to +5 Volt, via a resistor in series of 10 kOhm. Correct the Service Manual, in which pin 10 is mentioned. (page 3-4 Service Manual item 5.3)
Philips	VR656	After some time no colour	Replace colour IC 4822 209 90423
Philips	VR656	CARR-ERROR message in display	Check +12VD (page 3-23 of Service Manual). This voltage can be measured on pin 4 or 15 of IC7770 (TDA8540) and has to be about 11,6 Volt. If the voltage is too low, check the 4 components around the IC. Check C2784 (330 nF) for leakage.
Philips	VR656	Does not accept cassette	Replace pos. 47 (4822 310 10657).
Philips	VR656	How to display name of transmitter	This is only possible if the appropriate VPS or PDC signals are sent by the transmitters. Press SELECT on the remote control to display the name of the transmittor. If the name of a transmitter cannot be found, 'XXX' is displayed.
Philips	VR656	How to reset memory	Switch-off power supply. - Press simultanuously buttons "SPEED DOWN" and "SPEED UP", while switching on power supply. Note: correct the procedure, as described in the Service Manual (page 2-1, 3-4).
Philips	VR656	Motor noisy	Replace motor 4822 361 21643

Philips	VR656	No display; lift continuously moves upwards/downwards	Check invertors 7268 and 7269 for leackage, causing I2C-conflicts. Check as follows: - short-circuit B-E - If no voltage on collector: invertor OK. - If voltage on collector: replace transistor / Codenumber is 5322 130 41983).
Philips	VR656	No memory / programming impossible	Replace TR7261/ BC848C
Philips	VR656	No supply; no display.	Check uP 7300 (4822 209 90424).
Philips	VR656	Set blocked, display dark, head disk makes small movements	Replace T7261 and T7262 on Family board.
Philips	VR657	Adjustment clock frequency	Adjustment clock frequency (page 3-4 Service Manual item 5.3 To adjust the clock frequency, pin 7 of IC 7265 has to be connected to+5 Volt, via a resistor in series of 10 kOhm. Correct the Service Manual, in which pin 10 is mentioned.
Philips	VR657	Inoperative	No 12 V on VDO1. Replace C2784
Philips	VR657	no pic in e-e - sound ok	no vid signal pin 1 of mod. Tr7406 BC858B
Philips	VR657	No picture	Replace IC7500; 4822 209 90423
Philips	VR657	No recording.	Solder cable directly to erase-head.
Philips	VR657	No sound	Replace TDA9614 pos 7010; 4822 209 90455
Philips	VR657	Set blocked, display dark, head disk makes small movements	Replace T7261 and T7262 on Family board.
Philips	VR6585	Intermittently no sound on playback.	Replace uP control board.
Philips	VR6585	On playback and E to E, flashing chroma with patterning effect.	Two vertical lines appearing as an arcing or discharge effect also.Replace IC7405 - TDA4710H main chroma processor. Also check Wickman fuse, 1501- 315mA. This feeds the 5 volts to the chip.
Philips	VR6585	On record only, colour information fading from left to right	i.e. if colour bars are recorded, the yellow and cyan bars are OK but gradually the rest fade to black and white. Replace IC7405 - TDA4710.
Philips	VR6585	Popping noise on audio. Especialy noticeable with no signal input	C2011 / 100uF/ 25V
Philips	VR6585	TDA8136 (4822 209 61029) no longer available	TDA8136 (4822 209 61029) no longer available - service solution: Replace pos.7208 By L7812ACV (4822 209 72742) and insert this IC into pins 2, 4 and 6. Make a wire connection between the + of EL. cap 2223 and the + of EL. cap 2224. Note: The L7812AC

Philips	VR6585	Timer programmes are not recorded	VCR having switched itself on to the Tuner mode whilst unattended.Interference spikes on the mains supply corrupt the microprocessor data. Add 150 picoFarad tubular capacitors (code no. 5322 122 10237) between pins 46 and 32 and between pins 47 & 32 on IC7101 the front control microprocessor.
Philips	VR6585	Visual picture-search poor, large white band covering the picture.	The effect looked similar to one of the video heads being faulty, but they are not the cause of the fault. Check the lower drum.
Philips	VR6589	TDA8136 (4822 209 61029) no longer available	TDA8136 (4822 209 61029) no longer available. Replace pos.7208 By L7812ACV (4822 209 72742) and insert this IC into pins 2, 4 and 6. Make a wire connection between the + of EL. cap 2223 and the + of EL. cap 2224.
Philips	VR6591/75	Noisy e-e audio	Replace C16 0µ47 50v C23 2µ2 50v, C29 47µ 16v, C42 1µ 50v on if pcb & check dry joints IC75 5v reg
Philips	VR663	End Time not found when using VPT method of setting the Timer.	Some Programme listings do not support this method of setting the Timer.
Philips	VR663	Poor linkage of recorded pictures with pauses in between.	1. Remove jumper 294. 2. Add wire form pin 66 of IC 21 (system control IC) to base Q682.
Philips	VR6643	Tape damage during search	Check/replace Swivel wheel pos 64 with 4822 528 70504.
Philips	VR6643	The capstan motor stops rotation and STANDBY mode is activated.	Replace with new motor. Codenumber 4822 361 60461. REMARKS :This occurs after 10 minutes of playback or recording.
Philips	VR6648	Intermittent no operation of the VCR.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6648	Intermittent recording mode.	Replace pinch roller lever assembly. REMARKS : Blank tape may be ejected when operate rec mode.
Philips	VR6648	Intermittent rewind and fast forward.	Replace with new idler gear assembly. Codenumber 4822 522 32497. REMARKS :Search VS/REW VS/FFW are working normally.
Philips	VR6648	Noise appear in picture during playback.	1. Add two 3.0 mm spring washer 4822 530 80082 underneath the two screws 232. 2. Tighten the screws 232 with 9-10 kg.cm (0.9-1 Nm).
Philips	VR6648	Power turns off when selecting stop or eject mode.	Insert the spring into lever pin of tension arm and upper position of lever pin must be melted by soldering iron. REMARKS :If the pole base (position no. 76,73) does not return smoothly puring stop mode, change the relay gear drive lever (position no. 3
Philips	VR6648	The mechanism refuses a loading when inserting cassette tapes.	Resolder the cassette LED wires.
Philips	VR6648	The VCR does not go into the "eject" mode.	Replace the tension adjusting lever by a new model lever (4822 403 53539).
Philips	VR6648	Threading car tangled by the tape tension stabilizer.	Replace the tension adjusting lever by a new model lever (4822 403 53539).

Philips	VR665	Continuously "tracking" in display	Check circuit around bridgewire (jumper) 9604. Probably one of the solderpads has come loose. In this way the control pulses coming from the CTL-head are not connected to the IC7460 (SAA1310) and the deck- processor does not get control pulses, and stays
Philips	VR665	Display hardly or not visable	- Check fuse 1403 (80 mAT) on motherboard -28 volt supply for display (Codenr. Fuse: 4822 071 58009) - Check zenerdiode 6250 on operating panel (BZX79-C12; 4822 130 34197
Philips	VR665	Does not play, cassette is ejected	If capstanmotor is not running, check the 3 wires that connect the coil-PCB to the control PCB. These PCB's are accessible by carefully removing the flywheel.
Philips	VR665	How to clean video-heads	Push "tracking" button for 10 seconds.
Philips	VR665	int tracking / wow & flutter - capst speed variation	Tr7469 BC848B sm in control track amp
Philips	VR665	no pback pic - just snow	Tr7411 BC848B
Philips	VR665	Power supply defective	Resolder 2012 and replace switching transistor. Bad soldering of 2012, therefore frequency too high and 7040 and resistor burned.
Philips	VR665	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if thelatter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR665	Totally inoperative, no display, no tape functions	Check the presence of the +33 volt and the +5v ASW. If these voltages are missing, check resistor R3080 in the power supply unit. Condenr. R 3080 (47 ohm): 4822 052 10479 (if the +33 voltage is missing, the FET 7470 does not switch on the + 5 ASW.)
Philips	VR665	TV-set switches between mono and stereo (RF connection)	Apply following modification, if the TV set switches from stereo to mono when the VCR is connected via RF cable, and the VCR is in tuner or E to E mode: - Change resistor 3753 from 270 ohm to 330 ohm. - Add a coil 8.2 uH (5%) in position 5750. (4822 15
Philips	VR665	White dots / stripes during playback	This phenomena can be caused by a bad contact between the turbo drive mechanism and the family board. The mechanism is grounded by the cental ground-screw, which is mounted at the bottomside of the set. Check if this screw is present and if it is well tight
Philips	VR666	Bad picture in play-back; during search, large noise bands	Remove glue under 2623. Glue under 2623 is conductive.
Philips	VR666	Black and white stripes in the picture	Remove glue under 2350 and 2348. Level of pin 19, 7340 is varying because of conductive glue under 2350 and 2348.

Philips	VR666	Channel search does not work	If channel search does not work, check resistor 3318 on the family board. This resistor could be damaged by the tape deck during transport. The value of this resistor should be 10 k. Replace the resistor if necessary (codenr. 4822 117 10833)
Philips	VR666	Display nearly not vissible	If the set functions are OK, but the characters and information on the display are hardly visable, check the filament supply circuit. Check zenerdiode 6070 on the display and control PCB. Replace if defective by a new one: BZX79-B10 (4822 130 61219).
Philips	VR666	How to switch modulator on/off	Press simultanuously buttons "EJECT" and "PLAY" on set. The actual position of the modulator is now displayed. By pressing the right cursor during 5 seconds, the modulator can be switched-on or switched-of.If the modulator is switched-on, the output frequ
Philips	VR666	How to switch-off NICAM	Switching-off NICAM is erroneously described in the Instructions For Use. It is not possible to switch-off NICAM.
Philips	VR666	Modulator inoperative (on easylink TV)	When the VCR is connected to a TV set that supports easy-link, the modulator is automatically switched off, and cannot be switched on again.
Philips	VR666	No recording and no playback	Replace C2622 on Motherboard.
Philips	VR666	Power supply defective	Resolder 2012 and replace switching transistor. REMARKS : Bad soldering of 2012, therefore frequency too high and 7040 and resistor burned.
Philips	VR666	Set does not start from Low Power Standby	Replace 7022; if still not OK, resolder 5006, 7030, 7027, 7032.
Philips	VR666	Sound mute for 1-2s after change of picture from dark to light	Replace C2092 on Mobo by 1uF according parts list.
Philips	VR666	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if thelatter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR666	White dots / stripes during playback	This phenomena can be caused by a bad contact between the turbo drive mechanism and the family board. The mechanism is grounded by the cental ground-screw, which is mounted at the bottomside of the set. Check if this screw is present and if it is well tig
Philips	VR6660	no play when tape inserted	hardened grease on mechs
Philips	VR6660	Replacement combi head	The original combi head 4822 249 10222 used in VR6462, VR6660 and derived sets; is now replaced by the combi head 4822 249 10352. The new head has a different socket and the connecting wires need to be soldered onto the print side of the combi head PCB
Philips	VR668	Display dim	Low -ve supply to display - D6070 BZX79-B10 zener

Philips	VR668	Display nearly not vissible	If the set functions are OK, but the characters and information on the display are hardly visable, check the filament supply circuit. Check zenerdiode 6070 on the display and control PCB. Replace if defective by a new one: BZX79-B10 (4822 130 61219).
Philips	VR668	Interferences on hyperband channels	If interferences are present on special hyperband channels, make the following modification: - Replace R3860 (on MOBO) by a coil: 4822 157 71206. - Exchange the tuner/modulator module by a "ALPS" type (recognized by type TMGRX-XXXXX
Philips	VR668	Modulator inoperative (on easylink TV)	When the VCR is connected to a TV set that supports easy-link, the modulator is automatically switched off, and cannot be switched on again.
Philips	VR668	No recording and no playback	Replace C2622 on Motherboard.
Philips	VR668	Power supply defective	Resolder 2012 and replace switching transistor. REMARKS : Bad soldering of 2012, therefore frequency too high and 7040 and resistor burned.
Philips	VR668	Set does not start from Low Power Standby	Replace 7022; if still not OK, resolder 5006, 7030, 7027, 7032.
Philips	VR6710	Mechanical noise from power supply	Check/replace C105 1000uF/10 volt / 4822 124 21674.
Philips	VR6710	Set switches to stand-by	Check/replace C158 in power supply unit. 220 uF/10 volt / 4822 124 21555
Philips	VR6711	All LED segments light and switch off after short period	Check/replace IC1002 on servo/power panel / 4822 209 82948.
Philips	VR6711	No mechanical function available	Check/replace Switch pos 46 in the deck mechanism / 4822 271 30422.
Philips	VR6711	Picture vibrates, motor noise audible	Check/replace Drum unit pos 1. / 4822 691 20321.
Philips	VR6711	Set switches from RECORDING to PLAY-BACK	Check/replace recording protection switch pos 85/ 4822 271 30423.
Philips	VR6743	The capstan motor stops rotation and STANDBY mode is activated.	Replace with new motor. Codenumber 4822 361 60461. REMARKS :This occurs after 10 minutes of playback or recording.
Philips	VR675	Accepts tape then unlaces & ejects it	INIT sw 1460 on rh side pcb jammed in on posn
Philips	VR675	How to activate tuner mode	The tuner mode can be activated by pressing the stop key for more than 3 seconds until the display gives the information of the transmitter name and the actual time.
Philips	VR675	No colour in LP playback	Resolder crystal pos 1000.
Philips	VR675	No picture in playback ,recording is ok	IC7151 (head amplifier) defective.
Philips	VR675	Sometimes switching to stereo on mono tapes	Remove screening plate from solder side head amplifier (HA) part. Check pos.3082, must be a 470E resistor, if not change to 470E (4822 051 20471) Remove pos.2089 chip Capacitor 220pF from the Motherboard. Solder instead 220pF on pos.2089 a 150pF chip (5
Philips	VR675 Turbo	Top 1/2 screen blanked, bottom half snow when playing tape after rewind	Poor braking due to spring fallen off supply spool brake arm - refitted

Philips	VR676	How to activate tuner mode	The tuner mode can be activated by pressing the stop key for more than 3 seconds until the display gives the information of the transmitter name and the actual time.
Philips	VR676 Queen deck	Dead	C2361 47µ 100v & C2356 1µ 50v in psu
Philips	VR676 Queen deck	Wont accept tape	Remove lift ass'y * check for cracks on cogs at end of long metal bar. Not available separate - oreder cpt lift ass'y pt no 4822-443-64112
Philips	VR6760	Loss of the +10c supply to the signal panel P306	Check C2329 on P306 for short circuit, which as a result may have damaged T7304 on P306, and or T7607 on P607-2a.
Philips	VR6760	Timer record fails to start	The above listed VCRs have been in service for between 4 and 5 years and maintenance work may be required on the tape deck.It is possible that wear of the brakes/friction pads and the allied surfaces of the turntables can cause the tape to stop at the wro
Philips	VR6761	Dead	Thermal cutout on psu next to Q7001 faulty
Philips	VR6761	Intermittently dead, no functions, no display.	On checking around the power supply it was found that the mains input was intermittently missing. This was traced to a faulty mains input socket.
Philips	VR678	How to activate tuner mode	The tuner mode can be activated by pressing the stop key for more than 3 seconds until the display gives the information of the transmitter name and the actual time.
Philips	VR6785	Codenumber correction	Codenumber correction : Flap pos. 124 is 4822 443 62881
Philips	VR6785	Horizontal lines during playback, bad synchronisation	Check capacitor C2211 on the S-VHS board. Replace this one is the capacitance is too low. Codenr. C2211 : 4822 124 22409 (220 uF - 10V)
Philips	VR6785	No colour.	Resolder pin5 of IC7130 on panel P8..
Philips	VR6843	Clock runs too fast	Mount a capacitor of 10 nF parallel to R5017 on the timer panel
Philips	VR6843	Set switches off after a short while	Check/replace: - Threading motor pos 40 / 482236120651. - Dew sensor pos 12 / 4822 403 52542. - Driving belt pos 37/ 4822 35820507. - IC803 / 4822 209 72522.
Philips	VR6843	Some parts of the display give weak indication	Check/replace Display tube DG5001/ 4822 130 90548
Philips	VR6843	Tape damage	Check/replace/clean - Swivel wheel pos 52 / 4822 528 70504 - Brake of rewind turntable pos 65 / 4822 403 52535 - Brake of wind turntable pos 82 / 4822 403 53534 - Half-load bracket pos 53 moves sticky - Demount, clean shaft and hole and oil anew

Philips	VR6843	The capstan motor stops rotation and STANDBY mode is activated.	Replace with new motor. Codenumber 4822 361 60461. REMARKS :This occurs after 10 minutes of playback or recording.
Philips	VR6848	Mechanical malfunction	Check/replace Mode switch pos 55 / 4822 276 12496.
Philips	VR685	RF adjustment	Sw VCR to st/by with no tape inserted, hold "System" button until display shows mod freq. Use P+/P- to adj the OK to store
Philips	VR686/07	Int stops & ejects tape whilst in Play mode	Clutch ass'y fell to bits when removed
Philips	VR686/07	No video+ programming option - service mode entry reqd :-	Reprogram the corrupted option bytes in the EPROM. The option bytes for this machine should have been:- A237 B015 C127 D150 E182 The corrupted values were:- A001 B000 C000 D000 E000 To enter service mode on this machine simply press and hold the stop key on the remote then press and hold the play key on the front of the machine for at least 5 seconds. The remote stop key can be released once the play key has been pressed. The option bytes are entered at step 40 so you need to press "select 40 select". Enter the correct three digits for each of the five groups A-E, pressing OK after each group entered. Move on to the next group by pressing P+. Exit service mode by pressing standby.
Philips	VR6860	Erasing codeword (locked)	Procedure to erase the codeword: - disconnect the set from the mains supply - press simultanuously memory and record - connect the mains power - release both buttons - press then record to erase the codeword
Philips	VR6860	P676 (LED TOWER) defective	In most cases it is not necessary to replace the complete LED-TOWER (4822 214 31091). Mostly the fault can be repaired by replacing one of the defective LEDs (4822 130 32676)
Philips	VR6862	P310 Signal panel	The above models are all fitted with the P310 signal panel. P310 contains a unit, position no. 1006. Unfortunately this unit is no longer available as a spare part. The circuit and board layout diagrams have always been available in the service documentation
Philips	VR6870	Failure of the power supply which uses the IC type UA4006B+DP.	In a number of cases this has been located to a short circuit electrolytic capacitor decoupling pin 7 of the IC.The recommended replacement capacitor is code number 4822 124 20688.
Philips	VR6870	In playback mode, only HiFi sound on the right channel.	On following the audio path whilst in the play mode it was found that the signal was missing from the output (pin 13) of IC7002 (TDA 2514A). After checking around this IC it was found that C2010 (470 pF) was faulty.

Philips	VR6870	Power supply P018 no longer available	The PCB sub board, position number 1003, code number 4822 214 31777 is no longer available. The circuit diagram, board layout and codes for major parts are in the VR6870 service documentation. Analysis of defective power supplies has shown that the most
Philips	VR6880	Deck control micro computer IC7007	Deck control micro computer IC7007 situated on panel 921-4C : Two versions of this IC have been used in production. Sets coded KR00 up to and including KR02 4822 214 32493 Sets coded KR03 or higher 4822 214 3280
Philips	VR691	Dead	BUT11AF s/c; 3R3 2.5w dropper o/c - no other fault found
Philips	VR6920	Mechanical malfunction	Check/replace/clean Mode switch pos 92 / 4822 271 30396.
Philips	VR6920	No operation possible, clock is displayed	Check/replace R1001 on main panel 0,39 Ohm 4822 116 60198.
Philips	VR6943	Some parts of the display give weak indication	Check/replace Display tube DG5001 / 4822 130 90584.
Philips	VR6943	Tape damage	Check/replace/clean: - Swivel wheel pos 64 = 4822 528 70504. - Brake of rewind turntable pos 30 = 4822 403 52535. - Brake of wind turntable pos 29 = 4822 403 53534. - Half-load bracket pos 132 moves sticky Demount, clean shaft and hole and oil
Philips	VR6943	The capstan motor stops rotation and STANDBY mode is activated.	Replace with new motor. Codenumber 4822 361 60461. REMARKS :This occurs after 10 minutes of playback or recording.
Philips	VR6948	Set is dead	Check / replace: Q1001 STR16006 4822 130 61606 Q1011 2SB643 4822 130 61591 Q1012 2SD958 4822 130 42674 Q1013 2SB788 4822 130 42573 C1045 47 uF/10 V 4822 124 22858 D1026 MA4100H
Philips	VR6948	Totally dead (after mains interruption)	Replace capacitors C1012, C1039 and C1045 (47uF-16V) by 47uF-50V, suitable for operating temperatures of 105 degrees celsius. Codenr. 4822 124 22864
Philips	VR6970	Failure of the power supply which uses the IC type UA4006B+DP.	In a number of cases this has been located to a short circuit electrolytic capacitor decoupling pin 7 of the IC. The recommended replacement capacitor is code number 4822 124 20688.
Philips	VR6975	No video recording possible after recording LP audio only	In a limited number of machines made before the end of January 1989 it is not possible to record video when switching back from making a long-play audio only recording. The accompanying sound track will be recorded, and the E-E monitor picture will also

Philips	VR700/07	Ejects when tape inserted int or 1/2 loads & jams	Capstan motor
Philips	VR700/800 series	No SCART/RF O/Ps - mechs ok	SW5v supply missing due to Tr7323 FET sw incorrect bias due to missing 33v - R3193 68k o/c
Philips	VR702	Cassette spontanuously ejected in LP mode during REC or PLAY	A possible cause might be the low amplitude of signals WTAR and WTAL. This can be solved by changing pull-up resistors R3318 and R3319 from 100 kOhm to 47 kOhm (4822 051 10473).
Philips	VR702	Display inoperative.	Check fuse (315 mA) in the supply module that handles the filament of the display. If this is defective, replace it with a new one (codenumber, 315 mA fuse: 4822 071 53151). Mount the new fuse a little bit higher (about 1 cm) on the PCB. If the fuse is
Philips	VR703	All front Display Segments partially illuminated.	This fault was caused by the Display Driver CPU. Part number 4822 209 63048.
Philips	VR703	Cassette spontanuously ejected in LP mode during REC or PLAY	A possible cause might be the low amplitude of signals WTAR and WTAL. This can be solved by changing pull-up resistors R3318 and R3319 from 100 kOhm to 47 kOhm (4822 051 10473).
Philips	VR703	End Time not found when using VPT method of setting the Timer.	Some Programme listings do not support this method of setting the Timer.
Philips	VR703 etc	Int ejects tapes in play/rec esp in LP mode shows error E4 or E5 in memory	Reel tacho pulses low - change R3318/9 from 100k to 47k
Philips	VR708	No sound rec or pback	IC7651 TDA9619H sm
Philips	VR708/07	Dead	Replace short circuit BYW98/200 diode (6164) connected to pin 13 on the secondary side of the chopper transformer
Philips	VR712	No display & drum perm rotating	C2112 100µ 385v low cap
Philips	VR713	End Time not found when using VPT method of setting the Timer.	Some Programme listings do not support this method of setting the Timer.
Philips	VR713	Low Contrast on E to E but slightly better on Scart O/P.	Various tests found that 7516 on the family PCB was defective - type BC337/ 4822 130 41344.
Philips	VR713	No colour in record and playback.	Replace IC7051 - AN3236K
Philips	VR713	No front display and no operation from front controls.	If a pre-recorded tape is inserted, the machine plays OK. Check pin 28 of IC 7753. If this voltage is at 2.5 volts then the battery voltage is still active and the 12 volt rail is not taking over. Check/replace T7302 - BC848B.
Philips	VR713	Teletext and OSD line sync out or rippling / tearing.	Align/replace L5571.
Philips	VR713	Text corrupted including page header information.	Check/replace 13.875 MHz crystal - 1800. Text clock frequency osc.
Philips	VR713	Txt corruption	X1800 xtal connected to pin 11 of VIP chip IC7780 faulty
Philips	VR713/05	Dirty head symptom	C109, C110 25V 10uF inside the v/head pre-amp can

Philips	VR716	Cassette spontanuously ejected in LP mode during REC or PLAY	A possible cause might be the low amplitude of signals WTAR and WTAL. This can be solved by changing pull-up resistors R3318 and R3319 from 100 kOhm to 47 kOhm (4822 051 10473).
Philips	VR716	Set does not work, tape deck makes loud clicking	Replace C2114 in power supply.
Philips	VR722	Brightness of display irregular	To improve the brightness of the FTD display, modify the following components: - R3209 in the LSM45 supply from 10 Ohm to 4,7 Ohm (4822 116 83082) - Replace R3053 on the display panel by a wire jumper.
PHILIPS	VR722	DEAD AFTER MAINS FAILURE	REPLACE C2112 100MFD 385V IN POWER SUPPLY PHIL482212441556
Philips	VR722	No E to E.	Check/replace R3151 and R3147 in 12 volt regulator circuit on LFBU-DE board.
Philips	VR722	Sometimes cassette stocks against flap	Remount frontpanel
Philips	VR722	Sometimes no rewind	Replace deck processor IC7010. Codenumber is 4822 209 31836.
Philips	VR722	Stereo LED sometimes lighting up during MONO reception	Mount a second 5,74MHZ filter between pin 3 of pos. 1824 and pin 22 of IC7820. This filter can be mounted easily after deleting chip jumper 3934. Do not forget to remove lacquer below the chip jumper. Codenumber 5.74 Mhz filter 4822 242 81257).
Philips	VR7225	Dim display, various segments lit, missing -27V	Wickman fuse in PSU and also corroded timer panel cleaned out.
Philips	VR7225	No sound on tapes rec on other machines - ok on own recs	Playing back in HiFi stereo - to play back mono recs press "audio" button on hset until "mono" appears
Philips	VR7225	Poor starting - psu doesn't work when loaded	100µ 400v mains bridge rect reservoir cap
Philips	VR7225/05	Erase int	o/c print on erase head - solder lead direct
Philips	VR7229 Turbo	Int tape loading	loading motor
Philips	VR722S	To turn RF modulator off/on	Press 'Play' & 'Eject' buttons together for 2 - 3 secs
Philips	VR723	Brightness of display irregular	To improve the brightness of the FTD display, modify the following components: - R3209 in the LSM45 supply from 10 Ohm to 4,7 Ohm (4822 116 83082) - Replace R3053 on the display panel by a wire jumper.
Philips	VR723	Cassette flap does not close	Remove grease from flap control lever.
Philips	VR723	End Time not found when using VPT method of setting the Timer.	Some Programme listings do not support this method of setting the Timer.
Philips	VR723	Sometimes no rewind	Replace deck processor IC7010. Codenumber is 4822 209 31836.
Philips	VR723/05	Dead	C2108 47µ 16v on pri of psu
Philips	VR727	Dead but nothing blown	Mains rect C2117 100µ 375v hi esr
Philips	VR727	Dead with ticking	47µ 16v cap in psu adj to TDA4605-3 control IC

Philips	VR727	Head sw points set up	see article in folder
Philips	VR727	Int dead when cold	3 x 680µ 16v caps smooth Q7008 BD434 dried up
Philips	VR727	No pback or e-e sound	IC7205 TDA2518
Philips	VR727	Tape int jams with load motor running	Intermediate lever damaged (item 32) - fit Service kit F
Philips	VR727/05	Accepts a tape then nothing	Removed & then refit backup battery to reset micro
Philips	VR727/05	Dead - no functs or display	C2201 47uF 50VW, C2209 47uF 50VW psu sec & 47uF 16VW in pri hi esr.
Philips	VR727/05	Dead & tripping	47µ cap in psu pri - also check caps in secondary
Philips	VR732	Rattling capstan and unstable picture	Check/replace C 2082 (5322 126 10223; DECK electronics). See Service Manual page 3-15
Philips	VR733	AUDIO level too low	Adjust R3390 (PBL) again on 40 mVolt +/- 0.5 DB. by means of HIFI testcassette. See Service Manual of VR632, 732, 733 and 833 page 3-3 chapter 2.6.2.
Philips	VR757	No e-e or rec sound; pback sound ok	Tr7918 on OSD board
Philips	VR757	Set blocked, display dark, head disk makes small movements	Replace T7261 and T7262 on Family board.
Philips	VR757/805	Dead - psu self destruct	7010 - MC44063P - I.C., 7040 - STP3NA60 - FET, 7070 - SOC1012T - Opto-isolator, 2030 - .1uf 63v - Cap, 2032 - .1uf 63v - Cap, 2040 - 2.2nf 63v - Disc Cap, 3010 - 10k .5w - Resistor, 3012 - 1k " ", 3026 - 680ohm " ", 3032 - 22ohm " ", 3034 - 22ohm " ", 3040 - 4.7k " "
Philips	VR768	Dead with psu o/ps pulsing	C2070 47µ 400v in psu o/c - access difficult! Take care in reinserting drum ribbon cable on assembly
Philips	VR768	No recording and no playback	Replace C2622 on Motherboard.
Philips	VR768	Power supply defective	Resolder 2012, replace switching transistor. Bad soldering of 2012, therefore frequency too high and 7040 and resistor burned.
Philips	VR768	Set does not start from Low Power Standby	Replace 7022; if still not OK, resolder 5006, 7030, 7027, 7032.
Philips	VR799	Head speed too fast	Sys (colour) mode wrongly set - change to PAL or auto
Philips	VR799	No playback	Piece of plastic loose inside - replace slide plate
Philips	VR805/07	Head switching set up	Press stop on R/C & play on vcr. With select, set last 2 numbers in display to 51.Adjust with +&-
Philips	VR805/07	Setting head sw points	with test tape inserted, enter serv mode by pressing stop on r/c & play on front controls together. The two least significant digits on display show step number [presently 00] Pressing select [OK] on r/c causes these to flash enabling them to be changed by entering 2 digits from the r/c. Enter 51 for vert head sw pos adj Pressing select again causes tape to play briefly After a few secs OK appears in display. Exit set up by removing mains power or pressing standby
Philips	VR806	Dead	D6164 BYW98-200 s/c in 18v sec supply

Philips	VR806	Dead - fuse blown	STP3NA60F1 chopper FET s/c, also check/replace D6160 1N4006 & dry joints around R3159
Philips	VR813	Eject during recording/playback, LP mode	When recording or playing back using the long play mode it is possible that the above models may prematurely eject the tape. The reason for this eject taking place is associated with the amplitude of the tacho signals WTAR and WTAL. The problem can be ove
Philips	VR813	End Time not found when using VPT method of setting the Timer.	Some Programme listings do not support this method of setting theTimer.
Philips	VR813	If "PAUZE" is pressed during "REC", tape is ejected and set	No problem when pressing "PAUZE" during "PLAY": Pin 7 of IC7356 (TDA8136), voltage = 11,8 V during PLAY = 8,8..9,4 V during REC. Replace IC7356. Pin 7 is now 12 V during REC and PLAY.
Philips	VR813	Int eject/shutdown/clock pulsing etc	Dry joints between P1 & PSU pcb
Philips	VR813	No colour.	Check/replace IC7405 on KCP panel TDA4710 - 4822 209 61671
Philips	VR813	No display ok otherwise	315mA Wickman fuse 1216 supplies display o/c
Philips	VR813	Sometimes no colour in PLAY mode	Check supply voltage + 5,2 Volt; this can be easily measured on the PCB-fuse 1001 on the CHROMA PROCESSING PCB. If this voltage is far below 5,2 Volt, check then this voltage also on the supply-unit. Clean carefully the connection points of connector SM1
Philips	VR813	Tape will not load, Mechanism cycling, and erratic Display.	This fault was caused by regulator 7356 on the family P.C.B. The 12 volts line was low and unable to supply enough current.
Philips	VR813	Totally dead. No output voltage of supply (KSM-800), or far too low	If the voltages are too low, replace the capacitor C2112 (100 uF - 385 V codenumber, 4822 124 41556). If the supply is not oscillating at all, check capacitor C2114, and replace it if necessary by a new one (22 uF - 35 V codenumber, 5322 124 41431).
Philips	VR833	After a long time, display flickers	If display flickers at dimmer position 5 (maximum brightness), than replace PTC's 3103 and 3109 on the supply module by another type with codenumber 4822 116 40261. Ensure that the PTC's do not touch each other after mounting.
Philips	VR833	AUDIO level too low	Adjust R3390 (PBL) again on 40 mVolt +/- 0.5 DB. by means of HIFI testcassette. See Service Manual of VR632, 732, 733 and 833 page 3-3 chapter 2.6.2.
Philips	VR833	Audio not recorded; previous audio not erased	Remove connector from cable of erase-head and solder the wires directly on the erase-head. Check also whether metal-flakes are present in the flatcable connection of the audio-sync head.Note: touching the wires can already hide the complaint!

Philips	VR833	On timer screen March instead of May.	Replace software version by 037G.
Philips	VR833	Rattle during fast-forward	If a Turbo-drive with Fast-Forward problems is brought-in for service, Check first of all whether thooth-wheels 116 and 117 sufficiently grip in each other. If these tooth-wheels rattle-over-each-other during fast forward, replace following components: p
Philips	VR833	Rattling capstan and unstable picture	Check/replace C 2082 (5322 126 10223; DECK electronics). See Service Manual page 3-15
Philips	VR833	Right flap no damping.	Check gearwheel (Pos.20/2; 4822 443 63946) on right flap.
Philips	VR833	Set cannot be operated	When switching on the power supply, time and date appear slowly on the display. Also the ':' between hours and minutes flickers rather slowly.Solution: Check whether the erase-oscillator is active. If so, these signals radiate via the CTL-head and might
Philips	VR838	Display Lamps go out after a 5-10 mins	Replace the Lamps along with the Lamp Holders. Service Code 4822 255 30232.
Philips	VR838	Does not accept cassette	Replace kit 4822 310 31954.
Philips	VR838	No tape movement in play/FF/Rew	Kicker gear item 129 wrongly timed - not present in basic models
Philips	VR838	Rattling capstan and unstable picture	Check/replace C 2082 (5322 126 10223; DECK electronics). See Service Manual page 3-15
Philips	VR838	Wont accept tape - no resistance	coupling gears between main cam & worm had parted - fit new kit L
Philips	VR863	VCRs placed underneath TV that exhibit coloured interference.	Add 1mH coil and 10uF capacitor in parallel to collector of Q8E1 and R8E5. Change L8E1 (coil) from 1mH to 100uH. Change C8E1 (capacitor) from 0.22uF to 1uF.
Philips	VR948	Erases mono sountrack in play, Ffwd speed slow, rew missing, bargraphs show max with no sound etc	Tr7242 BC848B sm leaky caused all the problems
Philips	VR948	Only black and white video / menus	Check the setting for outgoing signal (E1) in the installation menu. The output signal can be switched between Y/C and CVBS. If the TV set does not support Y/C via scart, use the CVBS setting.
Philips	VR948	Rattling capstan and unstable picture	Check/replace C 2082 (5322 126 10223; DECK electronics). See Service Manual page 3-15
Philips	VR948	Synchro-edit cable	VCR VR948 is supplied togheter with Synchro-edit cable. Please add the codenumbers below to your Service Manual. Cable 3,5 mm Male - 2,5 mm Male: 4822 321 62605
Philips	VR948	Tape damage	Replace kit ES7118; 4822 310 31963.
Philips	VR967	No recording and no playback	Replace C2622 on Motherboard.

Philips	VR967	Output switches automatically to Y/C	When the VCR is connected to the EXT-2 SCART of a TV that supports easylink, the output of the VCR is automatically switched to Y/C to perform the best picture quality. This setting cannot be overruled. Therefore it is necessary to use a FULL SCART CABLE
Philips	VR967	Power supply defective	Resolder 2012, replace switching transistor. REMARKS: Bad soldering of 2012, therefore frequency too high and 7040 and resistor burned.
Philips	VR967	Set does not start from Low Power Standby	Replace 7022; if still not OK, resolder 5006, 7030, 7027, 7032.
Philips	VR967	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if thelatter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR967	White dots / stripes during playback	This phenomena can be caused by a bad contact between the turbo drive mechanism and the family board. The mechanism is grounded by the cental ground-screw, which is mounted at the bottomside of the set. Check if this screw is present and if it is well tig
Philips	VR969	5V fuse 1011 blown	Replace fuse and shuttle knob on front flap. REMARKS : There can be defective jog/shuttles where in case the shuttle ring is moved to the right and a pressure is put on the jog, there is a short circuit between +5V and ground.
Philips	VR969	Bad picture in play-back; during search, large noise bands	Remove glue under 2623. Glue under 2623 is conductive.
Philips	VR969	Black and white stripes in the picture	Remove glue under 2350 and 2348 Level of pin 19, 7340 is varying because of conductive glue under 2350 and 2348.
Philips	VR969	Switching-on VCR with Remote Control.	It is not possible to switch on the VCR with the Remote Control if the latter has been switched-off by means of the stand-by button on the VCR. Switch-on the VCR by means of the stand-by button.
Philips	VR969	White dots / stripes during playback	This phenomena can be caused by a bad contact between the turbo drive mechanism and the family board. The mechanism is grounded by the cental ground-screw, which is mounted at the bottomside of the set. Check if this screw is present and if it is well tig
Philips	VR969/05	Dead - quietly tripping when scoped	C2036 47µ 50v in psu pri - difficult to gain access to psu
Proline	14PV330	St/by led flashes & mech tries to move on its own	R3330 3k6 in psu pri & C2351 3300u
Proline	TVC140	No Pback pic - E-E ok	IC23 TDA8841
Proline	TVC140 Anam	Sw off aft 5 mins in video mode or E-E only	IC82 KP1010B & IC81 KA78R05 in psu
Pye	DV105/05	No playback sound	o/c audio head
Pye	DV15	Display int or missing	High res wickman fuse 80mA in -28v supply

Pye	DV605	Child lock removal	Press select and standby together on handset.
Questar	VR100C	No display	Check C3, 12, 13 &C38 in psu
Roadstar	VCR7200	Display only	F803 1.25A fuse o/c, Q805 2SC2310 leaky - replaced with a beefier TIP31
Roadstar	VCR7200	Int rewind	Idler bent - SEME VDC7455
Saisho	VR1000	Capstan Motor replacement	NLA - use MOTOR4156 SEME £4.50 and modify mounting plate
Saisho	VR1600	Drum runs slow then fails	IC01 BU2716S
Saisho	VR3400	INT LOSS PB LUMA	R52 ON LUMA PCB
Saisho	VR3400	Poor FFwd/Rew at ends - sometimes won't at all	Reel idler split
Saisho	VR805S	Cassette Housing jammed	Large cam wheel on rh side has lug broken off due to it being forced
Saisho	VR805S	No sound in e-e, pback or rec	Power plug on rf conv int, cleaned & tightened plug contacts
Salora	SV9900	Dim display	C446/447 56µ 16v - 47µ works
Samsung	C15A	Stuck in st/by with tape inside	Clean mode sw
Samsung	P130R	Dead IC702 KA8301 blown	PSU volts high - C104 33µ 35v
Samsung	PI30	On playback of pre + recorded tape noise lines may appear on monitor :	Remove C856 on Pre amp PCB Change R857 from 2K to 680 Ohm
Samsung	PI30R	No operation - 1 red led lights/drum spins	Overheating smell from psu - C017 330µ 25v, C014 33µ 35v hi esr but s/c on capst drive chip M56730ASP - sus motor faulty too
Samsung	PI990	Accepts tape but when ejected goes back in again of its own accord	Lighthouse end sensor led
Samsung	PI990	Distorted picture during search mode	Change R309 from 4.7K to 10K on Syscon/Servo PCB
Samsung	PI990	Slow drum rotation	Add Cap and Res in parallel IC301
Samsung	SI / SX7220	Tape runs at very high speed with sound still present	Dry Joint on Deck Joint PCB sits behind capstan motor CN213 connections faulty
Samsung	SI1240	No capstan	10µ 25v cap on motor pcb leaked & corroded track
Samsung	SI1240 SI1260 SI1560	Automatic shutdown due to incorrect position of loading motor when switched from FF to REW	Change value of R282 on the servo board
Samsung	SI1240 SI1260 VI1560	Intermittent changing of channels by itself:	Fit new type REMOCON module SBX1610-82
Samsung	SI1240 SI1260 VI1560	Loading motor driver IC206 Failure (KA8301)	Fit shorting link between W109 - W110 to improve motor ground.
Samsung	SI1260	Accepts tape but nothing else - won't eject	15v supply to load motor low - D212 u/s - tested ok
Samsung	SI1260	Auto stop: may occur from static electricity	Delete C706 of F/Timer PCB
Samsung	SI1260	Blank raster/no pback, no drum or capst	Sw5v missing at D109 1N4001- o/c used 1N5401
Samsung	SI1260	No drum or capst	5v supply low - D109 u/s - tested ok

Samsung	SI1260	No mechs - display ok & op light lights	D212 1N4001 on main pcb near housing o/c
Samsung	SI1260	Whirring noise, burning smell, no operation	KA8301 motor drive chip IC206. A BA6209 was fitted as a replacement
Samsung	SI3240	hum bar across col content in e-e & rec	33v reg chip
Samsung	SI3240 SI3260	INT LOADING JAMS GOES OUT OF SYNC ETC	REPLACE RH SIDE COGS ETC Pt No 62203-0025-01
Samsung	SI3260	Capst speed too fast	Capst motor faulty
Samsung	SI3260	No capstan in play - ok in ffwd/rew	D108 1N4001 in motor supply cct o/c - also check/replace D109 & 110
Samsung	SI3260	Poor e-e pic with cogging	C4112, C4110 & C4120 in IF can
Samsung	SI7230	housing keeps going in & out with or without tape in it - plays ok if rec tab removed	small switch under loading gear was intermittent
Samsung	SR801K	unstable in LP mode only	IC201 KA8334 capstan drive chip
Samsung	STLV24P	No E-E video or pback vid - sound ok	C353 470µ o/c
Samsung	SV140I	Tape doesn't lace around head when in play mode	Retaining waser on main plastic slide plate off - found & refitted
SAMSUNG	SV203B	NOT FULLY EJECTING TAPES	DRY JOINTS ON SP602 END SENSOR
Samsung	SV203B	Won't accept/eject tapes, loading motor can be heard running.	Cracked loading motor coupling. Order whole loading assembly, part number AC59-90001A from CPC
Samsung	SV210B	Dead with mains fuse blackened	Chopper tr. Q1502, 2SC4517A s/c all ways, Chopper driver tr.Q1501, 2SC3203 leaky b/e.
Samsung	SV213	Int reverts to st/by	Dry joints end sensors
Samsung	SV213B	Chews tapes on eject	Replace load sw ass'y S601 & reel idler item T236
Samsung	SV213B	Int accepts tape, jams on eject, no auto stop	Dry joints tape end sensors S601/2 & check centre LED 601
Samsung	SV215B	Dead & squealing	ZD1S30 30v zener s/c due to dry joints on caps in psu near bridge rect
Samsung	SV220	All front LEDs lit, head sw point out, no UK spec	EEPROM corrupt - reprog using orig R/C; Hold test button (front RH side of VCR) for 5 sec. Use FFWD & Play buttons to set - enable 8,10,27,35 and 40. To reset centre tracking hold test button & press speed button. (using good spec tape)then press and hold test and 5.
Samsung	SV220	Int stops in play - noisy FFWD & Rwind	Capstan motor bearings partly seized - clean & lub
Samsung	SV220	Poor take up	large black brake lever that bears on the take up spool. It can come partly unclipped from the deck and stops the cassette from seating properly.
Samsung	SV221	No Ffwd or Rew	the gears in the clutch assembly separate slightly,you should be able to push them together again ,making sure the 3 lugs fit in the 3 holes ,then put tiny drops of glue in the holes to secure
Samsung	SV221B	Dead with tape stuck inside - 1.6A fuse o/c	Also Q1SR01 2SC4517 s/c, R1SR10 2R7 o/c, Q1SR12 2SC3203 s/c, R1SR11 0R68 o/c, D1SR11 1N4148 leaky & ZD1SR1 zener s/c Samsung produce mod see vcr clinic Nov 02
Samsung	SV222	Dead	Cap C1SS33 & diode D1SS33
Samsung	SV222/426	Loads tape - Ffwds then ejects - fault clears aft 1/2hr	C1SS35 & C1SS34 1000u 25v

Samsung	SV222B	Dead	Q1SR01 & Q1SR12, diode D1SR11, zener ZD1SS1, cap C1SR12 & res R1SR11
Samsung	SV224B	Won't easily accept tape	Start sensor PT602 9PT493F is sus
Samsung	SV231BV	No record sound - pback sound ok	R3A19 never been soldered
Samsung	SV231BV	Sound absent in rec & pback	Audio head
Samsung	SV233B	Dead	R1SS10 2R7, Q1SR01 C4517A, DSS132 UG2D9940 diode, C1SS133 330R 25v, R1SR11 0R68 saqfety res, C1SR14 4n7, Q1SR02 C3202
Samsung	SV23B	Int crackle on E-E & rec sound	Fit Samsung improved tuner
Samsung	SV241K	Dead	VA1 varistor s/c
Samsung	SV241X	Dead	C1SS35 1000uF /10V cap
Samsung	SV245B etc	Dead with PSU blown	Check ZD1SS1 43v zener psu sec also replace Q1SR012SC4517A, Q1SR02 KTC3203, D1SR11 1N4148, D1SD11 F1T4, R1SR11 0R68 2w, R1SS10 2R7 2w & C1SR12 22µ 16v non pol pt no 2401-000905
Samsung	SV300W	PSU int wont run	2 x 2200µ caps in 5v line in psu
Samsung	SV301	Low sound record	C524 1nf sm
Samsung	SV301	Switches off aft 1 hour play	8 Mhz. Xtal near the CPU
Samsung	SV301	Won't accept tapes	Master gear had small plastic lug broken off - replace
Samsung	SV301K	Broken slide lever is common problem	WVE code 79140N
Samsung	SV301K	No r/c	damaged print front panel
Samsung	SV301K	Stops aft 2 - 3 secs all modes	Dry joints TU & supply reel sensors
Samsung	SV30I	Goes dead aft few hrs play	Xtal in micro cct int
Samsung	SV4000	Int mech functs	Mode switch
Samsung	SV401K	Chews tapes when ejected before the start is reached	Slack tape due to take up spool braking - Brake Main Right item T208 replaced
Samsung	SV421K	Chews tapes	Check pinch roller & lh brake ass'y
Samsung	SV421K	Chews tapes in rew & crunching noise at end of tape	C240 sm
Samsung	SV421K	Display dim or missing	C37 1000µ 16v
Samsung	SV421K	No rew or ffwd	Lever pinch cam (T228) incorrectly seated
Samsung	SV425	White dashes on pback	Earth spring at back of deck not contacting
Samsung	SV603B	Wont accept cassette or perm trying to eject	T Up reel sensor dry jointed
Samsung	SV615B	Int deck jamming in loaded posn	Mode sw SW601 AC34 22001E
Samsung	SV615B	Random deck functs - display erratic	IC701 52 pin flat pack IC on front panel
Samsung	SV6303	Stops after a couple of hours	supply reel sensor - can check output by scoping R678/682 22k on respective sensor - should go between almost 0v & 5v
Samsung	SV6303B	Head switching point adj	Play a known good tape, press TEST sw followed by SPEED button on remote, & finally turn off the power.

Samsung	SV6303B	No eject,ffwd, rew or play	Replace split centre gear assembly Toshiba part BY730111 or SEME part VDV7720 - unable to spot until removed
Samsung	SV6303B	Various inc, no pback pic, int front controls, no sound e-e, thought tape was in when it wasn't	Reset the EEPROM values - Press "TEST" tact switch (SW718) on front edge of main PCB, then press & hold "MENU" button on R/C for 5 secs, this brings up "OPTION DIODE" screen which consists of series of numbers (01 to 48). Highlight following nos using left/right, up/down buttons on remote... 6,7,8,10,12,13,15,16,22,23,24,27,35,37,39,46,50,54. Then press "OK" on remote to "save" & go to standby to exit.
Samsung	SV630B	Dead with tape stuck inside	PSU comps - D1SR11, Q1SR02, Q1SR01, R1SR11 & R1SS10 all u's. Could be due to ZD1SS143v zener in 33v line but in this case caused by capstan drive chip - had hole blown in it
Samsung	SV637B	Dead	Caps CISS35 & 36 in psu
Samsung	SV637B	Dead - psu pulsing	C35 1000u 10v & C36 470u 10v
Samsung	SV651/655 etc Scorpion II	Incorrect key operation, no pic, wrong menu language etc	EEPROM corrupt - Press test button, then hold menu button for 5 secs to bring up Option Setting. Set as for model in manual & reset head sw aft. If test button is inoperative use Record key. Replace R668 & 669 4k7 sm Pt no 121606591
Samsung	SV801K	Dead apart from 4 dashes in display	End sensor not connected properly
Samsung	TI14C52S/XE U S51A Chassis	Shuts down in Play FF/RW	RM611 and RM601 270R Resistors. These supply 5V to the sensors.
Samsung	TI14CS	Wont accept tape - if tape is inserted when vcr in st/by, will accept	resolder RM641 180R feed to Cassette LED (never been soldered)
Samsung	TVP3350IT	No tuning	No activity on bus lines - crack in print to proc
Samsung	TVP3350IT	Shuts down aft couple of secs when tape inserted	If tape inserted when sw off, it would be ejected when sw on. R/H end sensor faulty
Samsung	TVP5050	Dead	Opto coupler
Samsung	TVP5050	Reverts to st/by aft pic appears for a few secs	Centre lighthouse led inop
Samsung	TVP5050IST	St/by only with tape stuck inside	Pinch lever faulty - 15003BL CHS
Samsung	TVP5050IST	Stuck in pause	Slider supply gear F520 cracked pt no SAMSAC6680142A
Samsung	VI1860	No e-e (blue screen) int vid glimpsed in tuning	Check electrolytics in IF can - care when replacing can
Samsung	VI-300	Dead	STR11006 s/c, C110 100µ hi esr, -27v zener s/c - (make sure heatsink is properly fitted to STR)
Samsung	VI306	Dim display	C38 100µ in psu
SAMSUNG	VI346	STUCK IN STANDBY	REPLACE C33 330MFD25V

Samsung	VI375	Dead	IC101 STR11006 s/c, R101 2R7 o/c, ZD101 22v zener s/c, C110 100µ 50v, R638 & R664 100R sm o/c, dry joints ZD606 27v zener, D101 leaky .If R630/631 7R5 1w are burnt replace IC602
Samsung	VI375	Dead - F102 2A & F101 1.6A o/c	STR11006 s/c, C110 100µ 25v low. Burnt print around D686 zener repaired and various tracks/ sm res repaired or replaced
Samsung	VI395	dead	only 14v across pins 1 & 3 of CN101 (16.5v). C116 1000µ
Samsung	VI395	no power up	Check R101, ZD101, C113 & C110
Samsung	VI510	No take up as idler wheel not engaging	Reel motor twitches only - faulty VID2407 CHS £12.78
Samsung	VI510T	No display	Check C3, 12, 13 &C38 in psu
Samsung	VI610	AV mode has blnk raster	Clean relay contacts (at back of pcb by I/p skts)
Samsung	VI610	No display for 5 mins	C3, 12, 13 47µ in psu
Samsung	VI611	e-e sigs dist - pback ok	33v supply reservoir cap C4 47µ
Samsung	VI611	Hum bar on E-E mode only	Check voltage at pin 18 PRST VTG 33V if low check C4 (47UF) 100V
Samsung	VI611	Int loss of display	Remove glue around C3, Q1 - had become conductive
Samsung	VI611	No display	No -24v - s/c across Q1 - replaced & scrape away brown gunge
Samsung	VI611	Operate light off aft 5 secs	cass IR lighthouse led wired incorrectly by last repairer
Samsung	VI611	Stuck on chan 1 & no tuning	IC901 33v zener & C2 47µ 50v replaced but sill low - D2 1N4007 o/c (had corroded leg)
Samsung	VI611	Tuning drift	C2 47µ 63v in psu & 33v reg IC901on pcbv behind clock
Samsung	VI611	Will stop from record or play after about 1 hour	Check pulses at Q610 should be 5V p-p if low check spool carriers for dirt
Samsung	VI611	Won't sw off - st/by led & ch ind stays on	Q2 2SA634 in psu s/c - used TIP42A in lieu
Samsung	VI617	Pulling/hum bar on e-e - pback ok	33v tuning volts low - C4 (52v smoother) u/s - gives only 20v
Samsung	VI621	Hum bar	C8 100uF, C6 2200Uf, C15 22uF, C4 33uF, C2 47uF,C3 47uF, C5 2.2uF in psu
Samsung	VI710	Blank raster in e-e & no sound in pback	PC9v supply low at pin 2 CN301. Q109 KSC2328Y o/c
Samsung	VI710	Clock time innacurate	C112, 111 1µ in psu
Samsung	VI710	No e-e pic when in rec	rec 9v low because PC12v low - Q105 2SB772 o/c b-c
Samsung	VI710	No rec or erase - pback ok	No rec9v Q110 KSA928 o/c - replaced but overheats - LO504 block osc on audio pcb burnt out - ok aft replacement
Samsung	VI711	Dead - may be int	No osc at XT601 4Mhz Xtal traced to C612 22µ (A test prod on Vdd pin 32 of front µ would initiate power
Samsung	VI711	No R/C operation	RM701 (R/C preamp) pin 3 only mush - replaced preamp/sensor from scrap vid cured it
Samsung	VI8220	EJECTS TAPES ON FF + REW	MODE SWITCH
Samsung	VI910	Dead	C2 4700µ 35v
Samsung	VI910	Int shuts down in pback	IC1 3132V on psu
Samsung	VI910	Loads tape then off - no lights or head/capst	IC2 78M05 psu

Samsung	VI910	No capstan rotation or sound in e-e	Q23 2SC3399 o/c
Samsung	VI910	No head rotation	IC2 SD3143 servo pcb
Samsung	VI910	Rolling picture	Insufficient Back tension Arm bearing sticky
Samsung	VIK306	Display pulses on/off with TV interference	Replace C15µ2 50v, C32 470µ 16v, C38 100µ 10v, C36 330µ 16v, C13 22µ 50v
Samsung	VIK306	No display	C38 100µ 10v, C15 2µ2 50v in psu
Samsung	VIK306	No functs	C35 470µ 16v in psu
Samsung	VIK306	No pback pic & drum fast speed	Drum drive pin 7 IC201 too high at 5v - chip faulty
Samsung	VIK306	Powers up for a few secs then dead	C35 470µ 16v & check other caps in psu
Samsung	VIK310	Damages tapes int & eject too soon aft rew, slack tape on eject and ejcts when stop pressed int	Mode sw
Samsung	VIK310	Dead - blown mains fuse	Replace STR11006 chopper, R010, C110 ALSO C109, C122 & C101
Samsung	VIK310	Dead - volts on sec of psu very low	(After fitting upgrade kit) STR11006 chopper chip faulty
Samsung	VIK310	Display dim	C120 100µ 16v in psu
Samsung	VIK310	Int mech jam & revert to st/by	Mode sw
Samsung	VIK310	Mechs alignment out	After realigning housing goes in/out on its own - dry joint BOT sensor on main pcb (acts as tape inserted sensor)
Samsung	VIK310	Pic flicker & wow on sound	Replace clutch, tension band, p roller
Samsung	VIK310	When ejecting cass symbols keeps flashing & capst motor keeps turning	Mode sw
Samsung	VIK316	Dead	Check caps C35 470µ 16v, C33 330µ, C34 470µ
Samsung	VIK316	Dead	Check R22 2R7 surge lim, R17,18,20 62k & R19 33k startup res, chopper tr Q01 2SK903 - if s/c check R25 0R47 2w, C13 22µ 50v & C15 2µ 50v. If chopper has blown also change IC02 PC121 or ON3171
Samsung	VIK316	Dead	AL5.8V rectifier (D3L20U) breaking down under load. It was pulsing around 2.5v-3v
Samsung	VIK316	dead - psu o/ps low or pulsing	C35 100µ 25v & C38 470µ 16v
Samsung	VIK316	Dim display	C38 100µ 10v
SAMSUNG	VIK316	VARIOUS POWER SUPPLY PROBLEMS	REPLACE C35,C37 AND C38
Samsung	VIK320	Housing shuffles with no cassette inserted	Tape sensor dry joints
Samsung	VIK320	Int timer rec & other functs	C110 100µ 25v, C122 2µ2 250v, C120 100µ 16v all hi esr
Samsung	VIK320	Patterning on Pback only	C117/118 330µ 25v, C116 1000µ 25v, C114 2200µ 10v, C113 47µ 50v all hi esr
Samsung	VIK320	psu pulsing - s/c across PC12 o/p	C502 100µ next to audio chip IC501 s/c
Samsung	VIK320	Servo drift in rec & play (like no ctl pulses)	Servo chip IC201
Samsung	VIK326	Failure to accept tape	Faulty RH plate of cass housing - plastic mount cracks
Samsung	VIK326	Guides won't load fully	Mode sw & main slide ass'y

Samsung	VIK326	Int blue screen in E-E	Bad conns psu plug
Samsung	VIK326	No chans would tune	no o/p pin 13 IC401 - chip faulty
SAMSUNG	VIK326	NO DISPLAY AT SWITCH ON DIM THEREAFTER	REPLACE C38 IN POWER SUPPLY 100MFD10V
Samsung	VIK326	No playback pic - blank raster only	Dry joints head amp conn CN302
Samsung	VIK326	St/by only- display flashes slowly - psu noisy	AT5.9v low - C35 470µ 16v
Samsung	VIK326	Tripping psu	C35 470µ 16v
SAMSUNG	VIK326	VERY DIM OR NO DISPLAY	REPLACE C37/38 100MFD10V AND 47MFD50V
Samsung	VIK326	Wont accept tape	C35 470µ in psu - replace even if it checks ok
Samsung	VIK346	Mechs jammed & out of time	When reset goes out of time again aft a few days - replace RH side of housing Pt no 5562203-0025 £1.86 CHS
Samsung	VIK350	grinding noise in play	loading block replaced - damaged teeth
Samsung	VIK350	When powered TU reel turns, cass housing shuffles & reverts to st/by	Lift side chassis replaced & dry jioints led tower
Samsung	VQ366	Dim display	C38 100µ in psu
Samsung	VXK336	Dead - psu tries to start	C35 470uF 16V (Psu secondary).
Samsung	VXK336	Display dim	C38 110µ 10v in psu
Sanyo	14CT1	Won't accept tape if tv sect running	replace led tower
Sanyo	P90 deck	Take up clutch sticks int in drive	Mode sw 1 tooth out
Sanyo	TLS9024	Int tape chewing	Fit service kit
Sanyo	TLS924	Int shut down & error code "E3" (Capst)	Capstan bearings duff
Sanyo	VH335E	Plays slow & cuts out with wow	C501 res cap o/c
Sanyo	VHR1100	Capst speed varies	tracking 100k slider pot o/c
Sanyo	VHR1100	Tracking errors	supply & T Up guide rollers - replacement is best
Sanyo	VHR1300	Int stops/warble on sound/poor tuning	33v reg zener GZA32
Sanyo	VHR1300E	screeching noise in pback	main operating cam coupling gear not meshing due to detached from deck moulding fit screw in to hold it in place
Sanyo	VHR135E	Hum bars e-e & drum fast	o/c winding on mains tfmr
Sanyo	VHR135E	Int dead/mechs	Dry joints CN301 & 302
Sanyo	VHR135E	Int FFwd/Rew	Mode sw
Sanyo	VHR135E	Int loss of front panel ctl	dry joints CN702 between 2 front pcbs
Sanyo	VHR135E	Int low gain tuner	dry joints in can
Sanyo	VHR135E	Int no play	Idler not free to rotate - lub
Sanyo	VHR135E	Int operate in Ffwd/Rew	Failure of cam slide ass'y 613 094 9240 item 29
Sanyo	VHR135E	Int take up in play / rew	idler sticks on shaft - lub
Sanyo	VHR135E	Int timed recs	Rec prot sw int
Sanyo	VHR135E	No mech operation	No drum - stator winding board replaced
Sanyo	VHR150	Chews tapes in rev search	Tape piling up on rh side of drum - excess friction on lower drum

Sanyo	VHR150	Crackle on sound in rec/pback - LP only	IC210 audio chip
Sanyo	VHR150	No or slow rew/ffwd	Plastic stop for clutch mode select arm missing - fitted screw in lieu
Sanyo	VHR190	Dead	D5101 14v rect s/c
Sanyo	VHR190	FM sig goes aft 20 mins	fault finding on fm module difficult - replacement from Sanyo reasonable price Pt no 613 123 6110
Sanyo	VHR190	Goes fwd when rew selected	LB1688 motor dr chip - not available sep - buy whole motor ass'y
Sanyo	VHR190	Int r/c	Dry joints CN712 (front panels connector)
Sanyo	VHR190	No capstan motor rotation	Replace LB1688 motor drive IC on the capstan motor board. (Available from Grandata)
Sanyo	VHR190E	Int accept tape	mode sw (refit with housing down)
Sanyo	VHR190E	Int/no RC operation	dry joints between conns linking front panel pcbs
Sanyo	VHR2300	int stop in pback & rec	dry joints on drum pcb around connector
Sanyo	VHR235	No drum rotation at sw on & won't accept tape	Always 13v low pins 6 & 8 CN541 - IC521 STK5446
Sanyo	VHR244	No rec col	Osc X1001 not osc - replace Xtal
Sanyo	VHR245	Half loads a cassette then ejects it	Flap lever 040C broken and spring 040B replaced
Sanyo	VHR251	Int speed and failure to eject	dry joints in psu
Sanyo	VHR251	Poor e-e pback pics - humbar/rolling ok via scart	2 x 1µ caps in rf converter
Sanyo	VHR251E	Pic disappears in pback after few mins with own recs	Check tension band lever
Sanyo	VHR267	tape stuck - no mechs	PR512 1A fuse in sec of psu had risen to 1R
Sanyo	VHR274	Continually winds/rew when tape inserted, eject difficult	Fishy smell led to C5113 47µ 35v in psu - leaky & legs corroded, also C5113 330µ 16v hi esr
Sanyo	VHR274	Incorrect deck functs - eg play causes Fwd or Rew to occur	C5113 (47MFD 35VW) on secondary side of power supply which was high ESR.
Sanyo	VHR274	Rewind poor - stops before beginning	Relace clutch ass'y
Sanyo	VHR274	Sw between pic & blue screen in pback	No ctl pulses - BU2896K IC351
Sanyo	VHR274E	Dead - mains fuse o/c, chopper tr s/c	Dry joints chopper tfmr
Sanyo	VHR274E	Dead & no display	No always 5v supply - Q5101 2SC22747F series reg tr
Sanyo	VHR274E	No display - otherwise ok	R5120 4R7 burnt/replaced & C5105 470µ 16v leaked over board
Sanyo	VHR275	Chews tapes in play	Arm lever load pt no 613-164-4762
Sanyo	VHR275E	Int shuts down when tape inserted	Mode sw or load motor stiff
Sanyo	VHR275E	Tape stuck - reverts to st/by	No +13v supply due to D5110 in psu dry jointed
Sanyo	VHR276	Sw off when going into rec (usually aft rew)	Mode sw replaced
Sanyo	VHR276	Won't accept tape - housing shuffles in/out	mode sw
Sanyo	VHR276E	No E-E or pback pic	No 12v supply - R5110 27R safety res o/c - check dry joints chopper tfmr
Sanyo	VHR276E	Wont accept tape - lift shuffles in & out	Mode sw
Sanyo	VHR277	Dead - most psu volts appear present	PR512 1A cct prot o/c - its demise could be due to previous water down aerial lead

Sanyo	VHR277	Int shuts down during rec	PR512 0R1 in psu high res
Sanyo	VHR277E	Poor sound on rec/pback	ACE head suspect
Sanyo	VHR277GD	Crackling &/or humming on sound	CP PR512 0R1 CHS Code 11929YE gone slightly hi res
Sanyo	VHR277GD	Stops in rec - pback ok	CP PR512 0R1 CHS Code 11929YE gone slightly hi res
Sanyo	VHR277GD	Tape looping on eject or any mode sw symptom fault	CP PR512 0R1 CHS Code 11929YE gone slightly hi res
Sanyo	VHR278	Cuts out in ff & rew & slack tape on eject	Replace mounting clutch pt no 613-175-0661
Sanyo	VHR278	No sound pback or sync	No CTL pulses from IC351 - I/P at pins 21/22 ok - chip faulty
Sanyo	VHR278E	Auto tune & RF sequence	hold the "preset" button for > 3secs to set the RF out channel & test signal, & hold in channel up and down together for more than 3 seconds to start auto tuning. When auto tuning has stopped, press the ok button.
Sanyo	VHR279	Dead	R5002 650k o/c
Sanyo	VHR279	Eject inop with tape stuck inside	Piece broken off RH side of cass housing - if found, can screw/glue back
Sanyo	VHR279	Failure to erase prev rec sound	ACE head o/c
Sanyo	VHR279E	Int loading/unloading or sticking mechs	loading motor had dead spot - motor has integral plug conn
Sanyo	VHR279E	Int rec sound - sometimes prev sound track	Bad conns full erase head - should read approx 1R
Sanyo	VHR279E	Jammed tape	Mode Switch, New PSR512 and Re-time.
Sanyo	VHR279E	Poor tape loading - int jams	Loading motor replaced Pt no 645 029 7014 (faulty if draws more than 30mA)
Sanyo	VHR279E	Tape stuck in fully loaded	Load motor drawing excess current & read 15R - new motor (Motor4366) from SEME £6.93 read 6R
Sanyo	VHR286	Int loses time	X3002 Xtal adj to IC302 dry joints
Sanyo	VHR287	Int cuts out on rec/play	Prot PR512
Sanyo	VHR287	int off when rec selected & no display	PR512
Sanyo	VHR287	some display segments perm lit	D3120 in display drive leaky
Sanyo	VHR287E	Hum on pback sound	PR512
Sanyo	VHR287E	int shut down in rec mode	fusible res PR512 safety res gone hi
Sanyo	VHR287E	RF Adj	Turn the VCR off to standby Hold the preset button in for at least 3 seconds. The VCR will show 52 which is the default output. Use Ch - + to alter. Press preset again to store. The tuning bars will appear in this mode
Sanyo	VHR288	Tape stuck - starts to load then reverts to st/by	C5115 & C5117 3µ3 in PSU sec (not PSR512 this time)
Sanyo	VHR289	Sound of prev soundtrack still present on new rec	C2015 47µ 6.3v under head drum
Sanyo	VHR290	Int wont accept/chews tapes	Mode sw
Sanyo	VHR291	Shuts down in SP/LP after about 1/2 hour	take up spool sensor reflective surface faded & dirty - clean or replace
Sanyo	VHR291E	Int col rec	IC101 LA7395
Sanyo	VHR291E	Int failure to accept tape - ok on power reset	Mode sw
Sanyo	VHR291E	Int failure to power up/down	dry joints CN712
Sanyo	VHR291E	Int stops in Play	Reel sensor

Sanyo	VHR291E	NO E-E NO SYNC	T6901 ON SYNC SUB PANEL DRY
Sanyo	VHR291E	No e-e sound/pic or sync det	T6901 on sync det sub pcb dry joints
Sanyo	VHR291E	No mono sound rec	Check T2001 and Q2001.- coil o/c
Sanyo	VHR291E	Noise on Nicam , not on FM audio	Move ribbon cable from control panel away from Nicam pcb
Sanyo	VHR291E	Whine on sound after re-assembly	long ribbon cable should be stowed in front section of case to avoid pick up
Sanyo	VHR291E	Whining noise on NICAM	Check dressing of white flat cable from front
Sanyo	VHR296	Modulator setting	Turn the VCR off to standby Hold the preset button in for at least 3 seconds. The VCR will show 52 which is the default output. Use Ch - + to alter. Press preset again to store.
Sanyo	VHR298E	No sound e-e or rec through scart or RF	Bad conn (one end lifted from print) on sm component in tuner/IF can
SANYO	VHR3100	DEAD	CHECK D5009
Sanyo	VHR3100	Dead	D5009 GZB16C zener s/c (always 13v)
Sanyo	VHR3100	No rev search	loading belt
Sanyo	VHR3100	No rew	Push retaining pin back against sub slide & fit circlip on other side
Sanyo	VHR3100	Power & Eject buttons not working on front	earth lead from switches not connected
Sanyo	VHR3100	When tape inserted carriage moves back & fro then sw off Capst motor runs fast if tape manually inserted	IC4001 LC7412-8017
Sanyo	VHR3100 VHR3300	INT FF OR REW	SLIDE BAR MISSALIGNED WITH REEL BRAKE PIN PRESS SLIDE BAR PIN THROUGH MECH PLATE AND FIT WASHER + CIRCLIP ON TOP
Sanyo	VHR315	Dead - blows PR511 N38 cct prot	Tuner/IF module internal s/c
Sanyo	VHR315	Dead & tripping	IC511 zener psu sec s/c
Sanyo	VHR315	Slack tape on eject	sticky capstan brake - replace pad
Sanyo	VHR315	Tape jammed inside	Check mode sw
Sanyo	VHR315E	Cassette jams	Mode sw
Sanyo	VHR315E	Tape loops on eject	Capst brake faulty
Sanyo	VHR3300	Dead	R1 o/c
Sanyo	VHR3300	Dead F5101 400mA shattered	Dry joints STK7226 reg & R5001 2R7 o/c
Sanyo	VHR3300	Dist pic in e-e - patterning & loss of sync	IC1001 LA7223
Sanyo	VHR3300	Int failure to accept tape	Mode sw
Sanyo	VHR3300	Int tape damage - tape spills when stopped	Replace missing spring in brake trigger area
Sanyo	VHR3300	Mechs jams	Half load lever metal pin bent - replace arm
Sanyo	VHR3300	Prog ind flashing & no tuning store	eeprom -30v supply high - D5102 GZS33X zener o/c
Sanyo	VHR3300	Stops int in Play/Rec -tape counter ok	Clean reel opto coupler - (tape counting comes from ACE head)
Sanyo	VHR3300	Total jam of the tape loading mech	Half load arm failing to move clear because metal pin has listed. Replace arm lever
Sanyo	VHR335	Accepts tape but will not funct apart from twitching	Check caps in psu

Sanyo	VHR335	Sluggish op/sw from lP to SP & no head lock	Change C5106(47mfd 50v), C5107 (47mfd 25v) and C5101(1000mfd 16v) all in the power unit and clean off electrolyte
SANYO	VHR335E	DROP OUT ON MACRO TAPES	DISCONNECT D1004
Sanyo	VHR335E	No eject	Slide plate item MB41 under load motor broken
Sanyo	VHR335E	No pback col - rec col ok on another machine	Output pin 3 comb filter DL101 low - L1008 15µ choke s/c (reads 0R5 instead of 1R7)
Sanyo	VHR335E	Slow & erratic Pback	Always 13v supply low at 10.5v. C5101 1000µ 16v had explode & D5114 1SS244 o/c
Sanyo	VHR350A	Horizontal jitter with noise in sympathy from head motor	IC351 BU2890BK dig servo chip
Sanyo	VHR350E	Dead	Start up res R5005 & 6 560k o/c
Sanyo	VHR390	Dead after slow start up	C5011 1µ psu pri, C5104 100µ in psu sec (all volts only half normal)
Sanyo	VHR390	Poor pback pic	C5101
Sanyo	VHR390E	Dead - no clock & whining	C5101 1000µ 16v, C5104 1000µ 10v leaking
Sanyo	VHR390E	No capst phase ctl	ok at pin 15/26 IC351but wrong at pin 44 - BU2890DK sm chip u/s
Sanyo	VHR390E	No functs	C5104 1000µ 10v, C5101 1000µ 16v
Sanyo	VHR390E	Shuts off in rew	reel sensor dirty
Sanyo	VHR4350	Wow on sound & int stopping when heated	Capst mot drive chip gets hot - replace capst motor ass'y
Sanyo	VHR4350	Damages tapes	Check mode sw, brake pads & Capstan flywheel also brake arm
Sanyo	VHR4350	Goes into FFwd at sw on	Capst motor
Sanyo	VHR4350	Int loss of drum servo phase lock	Int conns on drum motor pg coil
Sanyo	VHR4350E	Chews tapes on eject	Brake tension on capstan too high
Sanyo	VHR4350E	Goes straight to ffwd at sw on	Capst motor
Sanyo	VHR4350E	No ffwd/rew - int	Check cam slide ass'y - mod type available
Sanyo	VHR4350E	Tape loops on eject	Clean sticking capst brake
Sanyo	VHR4350E	The whole display flashing	The -40v & -45v low; C5104 47µ leaky
Sanyo	VHR4350E	Wow on sound after several hours	Capst motor
Sanyo	VHR495E	Blue screen on pback of some tapes & creasing top of tapes	Pinch roller &/or back tension band
Sanyo	VHR5200	Display rapid flashing	C5104 47uF 50 volt o/c leaked all over the board
Sanyo	VHR5200	No display	C5104 47µ in psu leaky also D5109 D5110 1N4148
Sanyo	VHR5200E	No deck functs	Dead spot on capst motor
Sanyo	VHR5240	No drum rotation when play selected	SW5v rail low - 2SC3807 Q5402
Sanyo	VHR7200	No mechs, reverts back to st/by when any button pressed	Loading belt stretched
Sanyo	VHR7200	Wow & flutter & noisy rew	Capst bearing dry/tight - relub
Sanyo	VHR7250	Cuts out in Play aft 5 secs	mode sw

Sanyo	VHR7250	Won't accept tape - no drum	13v supply low due to dry joints D5105, D5106
Sanyo	VHR7260E	Goes straight into play when tape inserted & no Rec (ejects tape when rec selected)	Rec tab sw bad contacts - clean
Sanyo	VHR766E	No functs except load	No sw 5 or 12v - Q513 2SC4483 or 2SD1207 also check Q1501
Sanyo	VHR766E	Odd symptoms inc loses sync in e-e & pback - worse in SP mode, ffwd & rew slow	BU2896K servo IC
Sanyo	VHR767E	No mechs apart from cassette load	R5110 27R in Ever 37v supply next to chopper tfmr
Sanyo	VHR767GD	Dead - psu running & PR512 ok	AL5.8v was 3.2v; D3001 leaky
Sanyo	VHR7700	Dead - clock only	No sw 5v - Q5402 o/c
Sanyo	VHR7700	dead except for clock	Q5402 12v sw in centre of main pcb
Sanyo	VHR7700E	Sw off within a sec of sw on	Q5402 2SC4484 leaky - fit beefier tr ie TIP41C
Sanyo	VHR774E	Dead	Q5001[2SK1460] chopper fet was s/c and replaced also Q5004 [2SC2274] was replaced with a BC639. D5103 on the secondary was s/c – caused by opto coupler PC120
SANYO	VHR774E	DEAD	ALWAYS 5V LOW (3.8V), REPLACE Q501 BC639 CPC*PS13041053
Sanyo	VHR774E	Dead - no 12v rail	C520 470µ 16v in psu plus C510 leaking
Sanyo	VHR774E	No display	C5105 (470uf/16v), C5106 (1000uf/6v3), D5104 (ISS244) , R5120 (4r7) and a good clean up
Sanyo	VHR775	damaging tapes in play	tape riding up past ACE head - new head reqd
Sanyo	VHR775	int accept a cassette & noisy load/unload	replace mode sw & loading motor
Sanyo	VHR775E	Keeps sw off - drum/capst motors fast	IC351 BU2896k servo chip
Sanyo	VHR776	Dead	Q5001 2SK1460
Sanyo	VHR776E	Dead - mains fuse blown	Caused by D5001 mains bridge rect s/c
Sanyo	VHR776E	Display disappears when any mode selected	PR512 in A5v supply now uprated to 1.5A CPC pt no FF00987; C5114 10µ 16v hi esr
Sanyo	VHR776E	No functs - tape loads & head spins fast	C3525 0µ47 50v - connected to pin 29 IC351 (read ok)
Sanyo	VHR777E	Dead	Mains I/p choke melted & sm bridge rect s/c & 2.5A fuse o/c
Sanyo	VHR777E	Dead with cp PR512 1.25A 125v blown	Check IC351 sm servo chip which goes s/c - (visible thro hole in bottom when metal base removed)
Sanyo	VHR777E	Int shuts down - lights go out when funct selected	Loading motor excessive current (over 50mA with no load) - SEME MOTOR4363 £13.95
Sanyo	VHR778	Int loss of sound on Nicam rec	Dry joints osc X6701
Sanyo	VHR778E	Dead	Check PR512 fusible & start up res R5011 390k in psu pri
Sanyo	VHR779	Int accept/eject tape	Loading motor
Sanyo	VHR779E	Int no eject	Replaced the loading motor (CHS code-11935WM 6.76UKP's).
Sanyo	VHR779E	Poor tracking	Head drum stiff to turn, lub bearing & invert spacer on lower bearing
Sanyo	VHR789	Dead - mains cap stays charged	Check s/c sm diode in psu sec near chopper trfmr

Sanyo	VHR789	No mechs - tape stuck inside	Loading motor part no 11935WM. 8.19UKP Chas Hyde. Also blown R3001 3.3ohm safety resistor and drive chip IC 302 LB1643.
Sanyo	VHR789E	Dead	R5002 /5003 start up res 560k
Sanyo	VHR789E	Head drum spins at sw on then reverts to st/by	Loading motor faulty
Sanyo	VHR789E	Int eject/shut down - display may dim	Loading motor int s/c windings - should be 40R
Sanyo	VHR789E	Wont accept tape	Loading motor s/c
Sanyo	VHR790	Dead aft power cut	Check 2 x start up res 150k & 2 x 1M5 res that they are fed from(from mains rect)
Sanyo	VHR795E	Int chews tapes	Clean mode switch
Sanyo	VHR795E	Mechs jammed	½ load arm jams due to bent peg on cam follower (part of arm)
Sanyo	VHR796	tape stuck - no mechs	PR512 in psu o/c
Sanyo	VHR798	Chews tapes	tension band spring loose & jamming gears
Sanyo	VHR874E	Dead	IC Prot PR541 1A o/c (causes no rec if hi res)
SANYO	VHR874E	NO CLOCK OPERATION	CHECK PR541 FOR O/C SANY6131388888
Sanyo	VHR899	Dead	D5012 on psu pri
Sanyo	VHR899	Slow to accept tapes	Loading motor faulty
Sanyo	VHRD4890E	Crackling on sound	Dry joints filter XF02 on Nicam Pcb
Sanyo	VHRD4890E	Patt & hiss on sound in standard mode	UHF Modulator
Sanyo	VHRD4890E	Tripping	C5013 22µ 10v, C5010 1µ 25v, C1 47µ 50v, C10 330µ 6.3v
Sanyo	VHRD500E	Dead	D5102 RK34 s/c
Sanyo	VHRH790E	Rewinds fully laced tape then reverts to stby	Loading motor (measured only 2R)
Sanyo	VHRH791	Dead	R5002/R5003 1M5 - care needed not to move mode sw posn
Sanyo	VHRH791	No take up	Replace clutch ass'y & arm ass'y
Sanyo	VHRM290E	Dead - no o/p from psu	R5002 1.5 Mhz open cicuit. Primary side of power supply
Sanyo	VR3723	Int rew	Mode sw or slide cam Pt no 613-094-9240
Sentra	VCR7620L	Dead	800mA fuse on mains tfmr pcb o/c
Sharp	37VT24H	Slack tape on eject	Idler not coming across in unload mode - change idler or retension idler spring
Sharp	VC108	No take up as idler wheel not engaging	mode sw
Sharp	VC483	Int stops in play esp towards end of tape	Clean take up reel sensor mirror
Sharp	VC484HM	No or distorted sound on right hand channel	Dry joints IC702 pins 2, 3, 15, 16
Sharp	VC583	incorrect or no functions	Can be caused by faulty mode switch or cog jumping
Sharp	VC583	Very Int No playback / record or E-E	Dry joints at plug socket CC on Video chroma PCB
Sharp	VC682SH	No play operation - reel idler not meshing with reel	Mode sw
Sharp	VC750	TUNING DRIFT	C1411 LEAKY
Sharp	VC750HM	Int chews tape/no tape shuffle when stopped	replaced mode sw & belts/idler
Sharp	VC780HM	Loading arms not fully loading	Reciprocating spring in loading gear broken

Sharp	VC787H	No sound/pic in E-E - sound present when test signal on	Vid at pin 3 IC2201 but no supply at pin 9 as D2201 zener s/c
Sharp	VCA100	Goes in to Fwd Search when FFwd pressed	mode sw
Sharp	VCA100	Int refuses to play/rec (symbol shows)	Poor rivetting between pin 10 IC801 to AE4
Sharp	VCA105	Capstan motor fast	Capst control chip on motor pcb - means new motor ass'y
Sharp	VCA105	Clicking noise from loading block	Worm gear teeth damaged
Sharp	VCA105	Machine would power on and initialise, then shut down with no functions and no display	Replace Timer IC5001
Sharp	VCA105	No sigs in e-e mode	IC951 33v reg s/c
Sharp	VCA105	Shuts down aft tape inserted & powered up	Timer IC5001 (remove all plugs from front timer pcb to check - should then play pre rec with tab removed)
Sharp	VCA105	Tape damage - Loading arms not fully returning	Timing between sector gear I tooth out - replace damaged sector gear & back tension post lever/gear (Possible root cause)
Sharp	VCA105	Tape jams on eject	Modified latching bar (item 319) & clutch operating lever (item 321) on housing
Sharp	VCA105 etc	Back tension lever is stuck on wrong side of the take up guide	Excessive wear of the tension adjusting lever
Sharp	VCA105 etc	Capstan motor will not rotate	C6 leaked causing open circuit print clean and repair track and Replace C6 (10UF) 25V
Sharp	VCA105 etc	Chroma processor IC501 improvement	IC501 replaced (TA8644N)
Sharp	VCA105 etc	Clock loses time	Clock ref across pins 30, 31 of IC5001 changes freq
Sharp	VCA105 etc	Intermittent tape loading or unloading intermittent no eject Half load lever moving irregularly	Replace cam switch Pt No QSW-R0026GEZZ
Sharp	VCA105 etc	Slow rewind	Brake torque take up reel is to high due to contamination of the slow brake lever
Sharp	VCA105 etc	VCR will not fully eject: or will not accept a tape:	Replace cassette switch and sensor PWB with improved Pt No DUNTK3194HE00
Sharp	VCA105 etc	When pressing STOP or EJECT while in play or record mode: causes the VCR to power down	Tension release lever (item 52) flexes during unlacing causing a delay in the timing of the tension arm: the delay causes the arm to jam the supply pole base (76) which upsets the unload sequence, resulting in IC801 powering down.
Sharp	VCA111	Drum speed excessive	Check FG pulses at motor pcb Printed FG coil - if low replace motor pcb (available separately)
Sharp	VCA111 VCT310 VCT510	The cass intermittently ejects tape the cass tape gets jammed when record mode is selected tape ejects	Pinch roller assy has become deformed replaced
Sharp	VCA111HM VCA615HM	Capstan motor bearing altered after Serial No's starting 503	New Pt No's Capstan motor RMOTN2019GEZZ Screw XHPSD26P06000

Sharp	VCA140	Capstan motor starts/stops aft 20 mins	Drive chip hot - replace motor - note vcr ser no for correct type
Sharp	VCA140	Int chews tape	Check movement of ½ load arm
Sharp	VCA140 VCA5011	Capstan Motor stop after approx 10 mins play or rec	Friction between the capstan spindle and bearing
Sharp	VCA140HM	int chews tapes/lines/poor sound	half load arm int seized due to hardened grease also replace p roller
Sharp	VCA30	Int Ffwd/Rew - idler gear not engaging	Mode sw
Sharp	VCA30	Poor Pback/E-E, & roll	C4401 47µ 10v
Sharp	VCA310	Accepts cassette then ejects it several times then behaves	Replaced slipping loading belt
Sharp	VCA36HM	Carries on in fwd search aft 'Play' pessed with sound	Capstan motor
Sharp	VCA39	After replacement of IC801 or models with serial No higher than 41163191 the RF output on/off switch no longer works	To restore feature Fit Pt No RHIX0867GEZZ
Sharp	VCA39	Int stop	Check drum earth spring is present
Sharp	VCA43HM	Int start up - psu just whistles	Bad conns C907 in psu - resoldered + C906, plug conns at PA & replace C913 47µ 16v psu pri
Sharp	VCA43HM	No functs or display	C913 47µ 16v in psu pri
Sharp	VCA44 etc	Remote functions as if door open even when closed	Disassemble handset and adjust PWB to enable door switch to be centralised in its recess
Sharp	VCA48	During reception (E-E) or in LP mode Sibilance can be detected	Add R630 & change values of C601, C619, C620, R605, R617, R620
Sharp	VCA49	Low sound/noise bars/poor rew	Excess friction on ACE head - relace head
Sharp	VCA50	Buzz on pback - int	C603 pressing against mechs - reposition
Sharp	VCA50 VCA72	Remote control door difficult to open	Remove sliding door and apply Molykote grease to 2 protruding tabs on the remote door
Sharp	VCA50 VCA72	RF blue mute and menu screen appear grey:	C5909 SMD cap wrong value Replace with 8pF
Sharp	VCA5011	Hum bar in e-e/rec; pback ok	D904 leaky
Sharp	VCA5011	Won't accept tape	Incorrect volts IC803 BA6238AM - D805 s/c (12v zener)
Sharp	VCA50HM	Cassette housing shuffles in/out at sw on	Sensor lever item 322 pt no MLEVP0248AJ00 bent causing it to cover sensor perm. Replacement the only cure
Sharp	VCA55	Dead	R905 in psu
Sharp	VCA55	Stays at Fwd search speed aft Play is pressed	Faulty capstan motor
Sharp	VCA55HM	No/slow playback - FFwd/Rew ok	Capstan motor faulty (not stiff bearings)
Sharp	VCA615	Display shows zeros only	Timer chip IC5001 RHIX0581
Sharp	VCA63	Fails to eject; loads/unloads when stop pressed	Mode sw
Sharp	VCA63	Int dead	C9 dry joint

Sharp	VCA63	Tracking errors, capst speed slow, poor col & when pause pressed goes into FFwd & locks up	No drum PG signal Pin 52 IC801. IC702 no I/p pin 28 from head drum. Head drum's pick up coil faulty - able to reconnect it.
Sharp	VCA63HM	Poor FF & Rw	reel brakes and springs and dirty capstan
Sharp	VCA63HM	Shuts down aft 20 mins with whistling - ok when cool	C913 47µ 16v
Sharp	VCA63HM	Slack tape on eject	Clean or replace mode sw & check idler
Sharp	VCA72HM	Tape stuck in cassette housing	Rack sliders at RH side had come adrift due to plastic spigots broken off. Order code for side pieces item 302 frame R pt no LHLDX1025AJ00
Sharp	VCA750HM	Off tune slightly in e-e	OK when 'tune/normal' sw in 'tune' posn. Adj bottom IF coil on IF module
Sharp	VCB322	Won't accept tape	plastic piece that opens the tape flap had come out along with its spring, this sits inside the carriage. Someone had tampered with it!
Sharp	VCBS97	E-E mode poor sync/ragged verts/roll	C2527 10µ 16v
Sharp	VCBS97	Soft picture when using AI function	Replace R2363 VRD-MN2BE332J
Sharp	VCBS97 VCR Sat combined	Audio level on the E-E channels are lower than the T.V. channels	Replace R1735 with a 8.2K ohm
Sharp	VCF360	Stops int	Take up reel sensor contaminated with grease
Sharp	VCH81	Int timed recs	Mode sw replaced cured it
Sharp	VCH81	No capst	Electro on motor pcb eaten thro' print
Sharp	VCH81	Tries to load without cassette in	Lighthouse LED s/c
Sharp	VCH81H	No capstan	10µ 25v cap on motor pcb leaked & corroded track
Sharp	VCH84	Crackle & hiss on right chan	bad joint pin 24 TB1204F Nicam chip
Sharp	VCH84	Int loss of mechs	Gear ass'y NGERH1128GEZZ
Sharp	VCH84/86	Plays back at high speed	Check wfrm pin 3 capst motor - should be 2v p-p. If not, try moving sensor on motor closer. If this fails a new expensive motor is likely to be reqd
Sharp	VCH841	Int functs & tape stuck	Capst motor int seizes - lub shaft
Sharp	VCH84HM	Dead with whine from psu	Change caps in psu (may read ok)
Sharp	VCH88	No r/c	IR rec outputting garbage - new Rec req
Sharp	VCH89	Following interruption in mains supply Nicam fails to work	Fit a resistor Pt No VRDRA28E563J between C1788 and 3rd solder joint in from edge of PCB by IC1791
Sharp	VCH92HM	Noisy E-E pic when cold	CQ601 0µ47 50v, CQ602 2µ2 50v in RF/det can
Sharp	VCH93	Rew int	FFwd/Rew idler hole had enlarged - replace
Sharp	VCM20	Damages top tape edges	Take up torque too high - replace pulley reel
Sharp	VCM20	Int functions	Check dry joints plug/skts AO & OA
Sharp	VCM20	LP symbol perm lit	Micro chip
Sharp	VCM20	Q901 blows intermittently & chopper tfmr buzzes	Dry joints opto coupler IC901
Sharp	VCM201HM	Dead	Chopper tr Q901 2SC4231 s/c, 4R7 2w R904 o/c - replace & add heatsink to Q901

Sharp	VCM202HM	Dead	4R7 2W res o/c, Chopper Tr 2SC4231 s/c fit MJF18004 in lieu
Sharp	VCM20HM	Int accepts tape & int stopping	Check end sensors Pt no 0233GEZZ
Sharp	VCM21 etc	Capst motor goes in rev or not at all	dry joints on capst motor socket
Sharp	VCM21HM	Dead, no display	C907 47µ 400v mains smoother & R904 4R7 2w
Sharp	VCM24HM VCM25HM VCM64HM	If clock set in 12Hr mode and record time starts before 12 (am or pm) and stop time after 12 video continues recording past stop time . (This will only happen if numeric keys on remote are used to set timer)	Change IC801 Pt No RH-IX1205GEN8
Sharp	VCM26	Child lock removal (pin no n/k)	Press & hold lock key on r/c - lock symbol then displayed, Press & hold st/by on r/c & front of vcr for 3 secs. VCR will shut down & clear child lock
Sharp	VCM26	Childlock removal	Simultaneously press the standby buttons on the front panel and the remote control.
Sharp	VCM26	clock gained 1 min per day	not osc xtal ; one of sm caps in osc never fitted
Sharp	VCM26	Dead & tripping after metal object inserted	"-25v" line missing; R995 10R sm o/c
SHARP	VCM26	INTERMITTANT NO COLOUR	DRY JOINTS ON X501
SHARP	VCM26	NO COLOUR ON PLAYBACK OR RECORD E-E OK	CHECK C512 FOR S/C
Sharp	VCM26	Patterning all modes & int col	X501 IC201
SHARP	VCM26/27/67	DEAD, POWER SUPPLY TRIPPING	POSSIBLE R995 SMD O/C SITS ADJACENT TO CHOPPER TX SHARVRSCY1JF100Y
SHARP	VCM26HM	NO PLAYBACK VIDEO BUT SOUND OK	CHECK X501 FOR DRY JOINTS
Sharp	VCM26HM	Re-alignment of mechs	Connect jumper between TP703 & TP704 before commencing
Sharp	VCM27	Interference on e-e & pback	RF modulator faulty
Sharp	VCM27	No rec/erase sound - bias osc freq & amp too high	Print repaired at C623 at base of bias osc
Sharp	VCM27	Tripping psu	IC901 opto coupler FX0007GE
Sharp	VCM271	Accepts tape then ejects it	Start & end sensors replaced
Sharp	VCM271	Capst int runs in reverse	Dry joints Socket P702 (Capst motor plug)
Sharp	VCM271	Dead - PSU volts low & pulsing	Q921 2SB709 sm leaky
SHARP	VCM271	NO E-E SOUND	REPLACE IF PCB SHARRIFU0672GEZZ
Sharp	VCM271	No erase - bias osc not running	IC701 micro not sw bias on - micro faulty
Sharp	VCM271	Setting RF Modultor	Put vcr into standby, press and hold menu until display shows CH36 (or other ch)...use cursor up key to step up rf channel...press set...then press stop on r/c.
Sharp	VCM271	Won't accept tape	Lighthouse LED
SHARP	VCM271HM	DEAD WITH TRIPPING NOISE	CHECK R995 FOR O/C OR HIGH VALUE
Sharp	VCM27HM	No playback colour	Xtal X501 on main pcb dry joint
Sharp	VCM29	No E-E pic & no col Pback	X501 Xtal dry joint
Sharp	VCM301HM	Int stops in play - drum motor stops	BA6977S IC702 drum drive chip

Sharp	VCM301HM	No mech operation - psu ok	Dry joint Q9903 on psu sec
Sharp	VCM301HM	No sound erase	Q651, Q652, R658 4R7 1/4w, C652 0µ1 sm
Sharp	VCM302HM	Dead, no display tho psu working	Check for +5V on collector Q703, if not present check/replace Q703,Q704. SMD Q703 B-E s/c could be 2SA1037KQ (marked FQ) or 2PB709AR (marked BR) SMD Q704 o/c could be UN2212 (marked 8B) or DTC124EK (marked 25) They are located near the IR remote sensor.
Sharp	VCM311	Dead	D915 20v zener s/c in start up cct
SHARP	VCM311	NOT ERASING	REPLACE R658 1OHM AND Q651 2SC3203
Sharp	VCM311HM	Goes into Rew when tape inserted	then goes into FFwd and stops (will eject) - drum pulsing - drive chip IC702 BA6977S
Sharp	VCM311HM	no erase of old soundtrack - no bias osc	Q651 2SC3203 osc tr leaky, R658 4R7 o/c, Q652 DTC323
Sharp	VCM311HM	No play - load arms only go halfway & return	No drum FG pulse from drum motor IC BA6977S - chip u/s
Sharp	VCM311HM	Snowy pback - counter runs fast	Q652 digital DTC323 s/c leaving osc running continuously
Sharp	VCM321	Dead - no display	2SK2848 power mosfet & IC902 AN8027 brought set to life but no mechs & reverts to st/by. R904 4R7 input buffer res o/c
Sharp	VCM321	Didn't erase prev recs	Q652 DTC323TK sm dig tr (bias sw)
Sharp	VCM321HM	No rec/Pback sound	R658 burnt out,replace and also Q652.There is a Sharp technical bulletin
Sharp	VCM41HM	Aft short time tracking lines appear in pback & sw between SP/LP	Check back tension not too low
Sharp	VCM60	Dead	R904 4R7 o/c; Q901 2SC4231 s/c - replace & fit heatsink (Pt No PRDAF1065UMFW) or find one in your spares box!
Sharp	VCM721	No take up	Dry joints at plug AC on capst motor
Sharp	VCM814	No E-E on Scart o/p	Worked ok when power reset next day
SHARP	VCMH26-69HM	DEAD	REPLACE R955 10,OHM RESISTOR SHARVRSCY1JF100J
Sharp	VCMH60	Motor pulsing & no display when cold	5v rail low - C925 470µ 10v, C929 330µ 10v
Sharp	VCMH60HM	Crushed whites on Pback	5v supply was only 3v on power up from cold - C925/929 (470uF 10v) also C921 (100uF 25v),C930 (47uF 25v) & C928 (470uF 25v) in PSU.
Sharp	VCMH60HM	No rec pic - old rec still present	No bias at FE head due to 8v bias volts missing - Q950 faulty
Sharp	VCMH64	Background hiss on Pback	Dry joint pin 4 plug AU on main pcb
Sharp	VCMH64	int loss of hi-fi sound in rec (1 chan only)	NICAM chip
Sharp	VCMH67	Childlock removal when PIN not known	Press "Childlock" on R/C - when display changes to 4 dashes waiting for correct code press St/by on R/C & front panel together
Sharp	VCMH67	Dead - no 5v	Q961 2SC2001LK
Sharp	VCMH67	Eject button pushed in	Pt no 27756QA WVE £1.34
Sharp	VCMH67	Mechs jammed	White plastic leverdouble action (pt no 27864R) WVE attached to pinch roller (pt no 27864M) broken off - supaglued back

Sharp	VCMH67	Tape edge damage	Adj height of 1/2 load arm up 1/2 a turn
Sharp	VCMH67	Using PDC on timed recs	Must have tuner/if on to rec PDC info
Sharp	VCMH67	Won't accept tape	Faulty end sensor (tested ok)
SHARP	VCMH67HM	ONLY AUTOTUNE MENU APPEARS	UNIT IS PROBABLY IN CHILD LOCK. TO RELEASE PRESS AND HOLD THE "KEY" BUTTON UNTILL "----" APPEARS IN THE DISPLAY THEN ENTER THE CODE OR PRESS THE STANDBY BUTTONS ON BOTH THE UNIT AND REMOTE AT THE SAME TIME
Sharp	VCMH711	Dead - no display	Q704 sm - 1 leg never soldered
Sharp	VCMH711	No playback as tape was being erased	Q652 sm (underside) DTC323TS s/c, R658 4R7 o/c. Replaced C655 47µ, moved Q651 away from Coil L651. Rear of main pcb
Sharp	VCMH711	Tries to load a tape when one not in	Not sensors this time - pin 79 IC701 micro (end sensor I/p) had internal s/c - IX1420UMN8 at 27UKP reqd
Sharp	VCMH722	RF out adj	1/ Put vcr into standby, 2/ Press and hold menu button for 3-5 seconds, 3/ Display will show rf ch, 4/ Use up/down keys to select required rf channel, 5/ Press SET to store.
Sharp	VCN311	RF adj	1/ Put vcr into standby, 2/ Press and hold menu button for 3-5 seconds, 3/ Display will show rf ch, 4/ Use up/down keys to select required rf channel ,5/ Press SET to store.
Sharp	VCT310	Hum bar on rec	AT9v has ripple - C905 2200µ
Sharp	VCT310HM	Damages tapes on eject .	Check and lightly oil idler shaft , replace mode switch .
Sharp	VCT310HM	Jams when tape loading	Worm wheel 19 lost teeth - replaced & main cam/belts
Sharp	VCT310HM	No FFwd	Idler & take up spool out of mesh - adj height of reel with plastic screw
Sharp	VCT310HM	Won't accept tape - ok if loaded by hand but stops short on eject	Inner sw on cass housing dirty and check for dries
Sharp	VCT510	No capstan rotation or sound in e-e	sillage on main pcb - replaced motor & ribbon cable and loss of cotinuity to mute tr caused loss of sound
Sharp	VCT510HM	Accepts tape but won't fully load - unloads	Drum PG pulses missing - PG coil on drum pcb o/c - resoldered conns to coil restored pulses
Sharp	VCT72	Poor take up torque & tape spills	Check T Up reel soft brake for contamination
Sharp	VT3700	Trips off in any mode but will FF/Rew but not play	Q603 leaky in PSU secondary
Sharp	VT3700H	No tuning/sound or accept cassette	IC751 12v reg low - 33v tuning reg IC1005 s/c, R760 220R o/c; D757 15v overvolts diode s/c probably all caused by STRM6523 chopper chip
Sharp	VT750 etc	Mechs jams & sw off aft 5 secs	Cam timing keeps jumping out due to broken tooth on supply load pole gear
Sharp/ Finlandia	VHSLY1	Slow on pback & rew	brakes perm on - pulley on change over from search to play had ridden down spindle. Fit washer & locking tab on spindle to prevent it
Sharp/ Finlandia	VHSSLY	Accepts tape and quickly ejects it	Clean mode sw

Sharp/ Granada	VCA40/ VHSHY4	No mech operation due to no capstan rotation	Change elect cap 10µ on motor pcb & check for corrosion causing o/c print
Sharp/ Granada	VHSFY1	No cahn store	Pin 2 IC5002 should be -31v but was high at -42v. Zener D955 dry joint
Sony	DHR1000NP	Laces up but nothing else	Ribbon cable to ops panel
Sony	ED10	No display	PS601 under psu module - replaced with 1R ¼w
Sony	EVA300	Cassette compartment door inop	Cct prot N5 at rear of top pcb o/c
Sony	EVC2000E	Dead	C11, 12, 13 in psu module
Sony	EVS550E 8mm	Dead	Replace C14/15/16/18 elecs in Psu secondary, a couple had leaked badly.
Sony	EVS550E 8mm	No sound e-e or Pback	Link JW4 in Psu (secondary) was badly corroded
Sony	EVS550S	Dead with all PSU o/ps low	C11 2,200u 16v, C12 330u 16v, C14 & 15 1000u 16v, C16 & 18 470u 10v & C36 1000u 16v
Sony	H-Mech	Loading problems	front loading block. Replace using improved type, part no. A-6759-623-A.
Sony	H-Mech	No eject, no loading & jammed tape.	Mechanism does not stop at tape beginning or end. Caused by defective photo diode detector, grease on photo diode detector, or broken light conductors in mecha lift. Clean or replace relevant part.
Sony	H-Mech	Tape eject, error code 10, 11, 12, or misc mech problems, possibly intermittent	Poor contact in mode switch (S901). Replace using improved type, part no. 1-762-490-11
Sony	KV21FV1U	Int deck shutdown	Lead from take up spool rotation det opto PH452 dry joint
Sony	KV21V5U	Won't accept tape or respond to any command	I2C bus line between main micro & syscon micro low due to faulty 6.2v prot zener
Sony	KV21V6U	No video deck functs	Broken conn on load motor skt under bottom pcb
Sony	KV21V6U	Recordings - snow only	Dry joints tuner TU101
Sony	S Mech	No playback or loading	damaged TG8 arm & pinch pressing gear. Replace both gears with improved parts: TG8 Arm Driving, part no. 3-977-445-02; Pinch Pressing, part no. 3-977-441-03.
Sony	S Mech	Slow rewind, or stops near tape end	insufficient oil on the reel table shafts. Replace thrust washer, & oil both sides with diamond oil. Part Nos: washer 3-977-509-01; oil 7-661-018-18
Sony	SL615UB	No chan store except Chan 1	faulty EEPROM IC304 part no 8-759-502-00. It is mounted on the front panel behind the display tube
Sony	SLC5E	Tracking noise bar moves up pic + hor shake making double pic	Check/replace all the 2.2uF & 4.7uF electrolytics (little blue tant types) in servo stages (Drum & Capstan) next to the servo I.C.'s & check back tension
Sony	SLV -SE 200	No response to commands aft 5 mins	change L401
Sony	SLV200UX	Head sw bar present in rec only	IC351 servo chip faulty (you don’t want to replace this 44 pin sm)

Sony	SLV225	No deck functs just shuffling brakes until shut down	make sure the pin is correctly located under the eject gear or it won't eject
Sony	SLV225	Playback has lines like hor hold off	check it is set to play PAL
Sony	SLV270	Dead	C1325 1µ 100v, C1326 47µ 25v
Sony	SLV270	Dead apart from faint whine	C1326 16µ 25v
Sony	SLV270	No display & deck solenoid clicking	PSU o/p varying - C1326 47µ 25v
Sony	SLV-270	DEAD, SOLENOID MAY RATTLE. ALL SUPPLY RAILS LOW	REPLACE C1326 47uF 25v C1325 1uF 100v
Sony	SLV-270	no display - toroid on deck clicks	change in PSU ; C1325 (1uF/100V)+C1326 (47 uF)
Sony	SLV270 Mk2	Buzz on e-e & rec sound	Filter F385SFE6.0
Sony	SLV270 Mk2	Half loads then stops with no functs except eject	CC243 sm cap leaky
Sony	SLV270UB	dead after powered off except scream from drum	Supply lines had ripple - replaced C1736, 1737 220µ 25v which were o/c & all other caps in psu for good measure
Sony	SLV270UB	No display & solenoid chattering	C1325 (1uF 100V) & C1326 (47uF 25V) in psu pri hi esr
Sony	SLV270UB	No display and deck solenoid chattering	C1325 (1uF 100V) & C1326 (47uF 25V) hi esr in PSU pri
Sony	SLV280	Chassis uses a Sanyo mech Chews tape on eject	The capstan brake pad becomes sticky
Sony	SLV280	Tape won't load	load motor
Sony	SLV315	Dead	C111
Sony	SLV315 etc	Int start: No sound: Tape damage:	Half load arm becomes very tight on shaft removed clean and oil
Sony	SLV353	After full rew if play selected - ejects	Leader overlapping sensor or Q001 supply reel sensor PH001 o/c
Sony	SLV353	No sound rec for first 20 mins	C275 47µ 16v in bias osc
Sony	SLV353	Wont erase tapes	Bias ok at full erase head - hard wire lead to head
Sony	SLV353/373	Wont sw off & only play/ffwd/rew	Rotary control on front set to cont play
Sony	SLV373	Chews tape - poor stopping at end of tape	Felt pad of brake shoe become partly detached
Sony	SLV373	Excess back tension & int stop in rec/play	Item 227 Arm S Take Up under master cam - small spigot sheared off
Sony	SLV373	Int chews tape	Capst motor base plate warped - new motor reqd
Sony	SLV373	No col pback of pre-recs, own recs ok on same vcr but no col when played back in another vcr	Wfrm at pin 19 IC801 HA118016NT chroma proc chip wrong. Should be 4.5v squarewave. Print pin 6 CN004 head amp broken
Sony	SLV373	No drum rotation - int at first - just 'kicks'	Replace C013/14/15 0µ1yellow caps on mech pcb
Sony	SLV373	No pback own recs (ie no rec) - pre-recs ok	fm lum signal low at pin 18 IC001 - chip faulty
Sony	SLV373	No rew or rev search	damaged teeth on master cam (Fine inner teeth on in suface near centre)
Sony	SLV373	P6 in display & no rew	Replace PH001/PH002 reel opt couplers pt no 8-759-144-33
Sony	SLV373	Stops in Ffwd & rew	reel sensor
Sony	SLV373UB	Tape loop on eject	Worn brake on take up reel
Sony	SLV401	Col int lost	CV801 on YC board
Sony	SLV401	Eject int does not work	Replace Clutch Base (SEME Pt No. VID1245)
Sony	SLV415	Dead or shows just bright "Mon" in display	X1 xtal 4.19Mhz on front pcb
Sony	SLV415	Drum servo hunting esp when cold	Drum motor drive chip AN3814K

Sony	SLV415	Ejects when play pressed & no r/c functs	Jog/shuttle sw on front - may be possible to clean or replace
Sony	SLV415	Goes into Ffwd when tape inserted	No other functs work - Jog/Shuttle sw on front
Sony	SLV415	Head drum twitches . Hall sensor on drum motor US .	Poor sync . Modulator faulty .
Sony	SLV415	Head twitches	Hall effect sensor on drum can be cause - good reading- 200-300R between any 2 pins, faulty >1500R
Sony	SLV415	No pic, smell of burning & no drum only pulsing	Not drum or drive chip - C014 0µ1 (or C013 or 015)
Sony	SLV415	Poor sync	replace modulator
Sony	SLV425	Dead	270k start up res sm o/c; TDA4605 u/s and several electrolytics in psu (220 & 470µ)
Sony	SLV425	Dead	C5030 47µ
Sony	SLV425	Int won't power up (LED remains red)	CIC130 sm chip faulty - not for the faint hearted!
Sony	SLV425	No rec sound	CY1255 47µ 63v o/c
Sony	SLV425	Poor Pback pic int reverting to blue screen	CIC2520 pin 6 sig dist (ok at pin 4) - CC2527 sm 10n cap faulty
Sony	SLV425	Starts to lace then unlaces & ejects	o/c solenoid
Sony	SLV425 Panasonic G MECH	STARTS TO LACE THEN UNLACES AND EJECTS	OC SOLENOID
Sony	SLV474	When replacing heads	Pan NVG33 etc cheaper than Sony ones
Sony	SLV615	Damages tapes on eject	Half load arm sticking - clean & lub
Sony	SLV615	Dead apart from a couple of digits in display	Replace C208, C218, C201 in psu sec (may read ok on esr meter)
Sony	SLV615	Loss of playback picture screen going to blue mute But Hi-Fi sound ok.	Check HA118019NT head amp chip.
Sony	SLV615	No pback pic only blue screen	Head amp o/p wfm has signal superimosed on it - HA118019NT chip u/s
Sony	SLV615	NO PICTURE BUT HI FI SOUND OK	HEAD AMP HA118019NT
Sony	SLV615	No reverse functs	Not end sensor but 100 pin syson/servo chip
Sony	SLV615	Won't come out of pause once selected	Mode sw (Note - front controls may not work with bottom removed)
Sony	SLV625	Chews tape on eject	No 9v supply - Q203 burnt out
Sony	SLV625	Clock wont set with handset	Reset hset by removing batteries
Sony	SLV625	Cuts out in rec/pback	Sensors HP001 & 2 sus - check by replacement
Sony	SLV625	E-E sound very low	Proc chip on hi-fi sub panel HF22 - running hot
Sony	SLV625	intermittent power cut off when a button is pressed on the front panel	replace cap 3300uF 16V in PSU and clean leakage under it
Sony	SLV625	Knocking noise in playback	Timing belt stretched
Sony	SLV625	no display, stby led on(red only)	5.8v supply low at 5.4v, replace cap 2200uF 10V in PSU
Sony	SLV625	No o/p from one head	bad joint on lower drum
Sony	SLV625	No Rec/E-E sound	Dry joints conn CN0306 on Nicam module
Sony	SLV625	Noisy in rew/ffwd & 'knock' during play	Toothed drive belt cleaned

Sony	SLV625	Pulling pic E-E until warmed up	Replace all 9 elects in IF unit
Sony	SLV625	Shuts down with "L" in display	HP001 & HP002 optocouplers type PS6002
Sony	SLV625	Tries to load then unloads	Bad conns drum motor
Sony	SLV625	Wont accept a cassette fully in	LH carriage release lever bent
Sony	SLV625U	Failure to eject	Mode sw or BA6238A load mot dr chip
Sony	SLV625UB	Dead - no display	C202 3300µ in psu leaked - also check other psu caps
Sony	SLV625UB	St/by only	Replace 7 elects in psu
Sony	SLV625UB	Tape chewing	Check pinch roller - Q203 2SA943Q in 9v supply
Sony	SLV6UV	No E-E sigs - just blue screen	dry joint L2 9v feed choke inside IF can
Sony	SLV715	Blank raster in E-E & Pback until heated	C207 1200µ 10v leaked, C202 560µ 25v, C108 1µ 400v, C211 0µ47 50v, C218? 120µ 16v all hi esr
Sony	SLV715	Blank screen on pback	Remove both 4 pin sharp devices and clean PCB, use a small drill to clear the conductive crud from their holes.
Sony	SLV715	Dead - when service kit fitted to psu no 12v o/p (No R/C or sigs)	Caused by resistive leakage on pcb near C208 & 209 - ok once pcb cleaned & C208/9 replaced
Sony	SLV715	No display & fishy smell	C220 100µ 50v had leaked on pcb causing corroded print
Sony	SLV715	No head rotation	no volts to drive chip due to cp N20
Sony	SLV715	No Hi Fi Sound - may come on dist after a while	Replace all 1uF; 2.2uF; 10uF caps on Hi Fi Audio (HF 9) board all 14 of then are sus
Sony	SLV715	No rev operation or rew	R003 5k6 on board MD49
Sony	SLV715	Supply loading pole dropped off	fit replacement - large sensor pcb underneath removed first
Sony	SLV715U	dead - no o/ps from psu	replace all electros in psu secondary
Sony	SLV715UB	Dead	Check for dry joints & elects in psu - Cap kit = A-675-957-4A
Sony	SLV715UB	Dead	Replace following hi esr caps -C108 1uF 400v;C211 0.47uF 50v (fitted a 1uF 100v);C219 1uF 50v (fitted a 1uF 100v);C218 120uF 10v (fitted a 100uF 16v);C214 120uF 16v (fitted a 100uF 16v);C217 220uF 10v (fitted a 330uF 16v);C206 470uF 16v;C216 470uF 10v (fitted a 470uF 25v)
Sony	SLV715UB	Loads tape, threads, head spins then stops & unthreads	Dry loints on lower drum pcb
Sony	SLV715UB	no drum rotation (No 9V output from pin 2 IC204)	replace IC204 PQ09RH11 (9V 1.5A regulator) Q201 and D216 are used to switch the IC off. If you disconnect pin 4, IC204 should switch itself on
Sony	SLV720B	Wont accept tape - powers down	No MTR12v - Q602 2SB733 cracked open s/c on 12v line traced to capstan motor tho measured ok in & out of cct
Sony	SLV757	High speed rew only - will not carry out other mechs	capstan motor faulty
Sony	SLV757UB	Dirty heads symptom - improves when drum slowed by hand - int	Dry joints drum motor stator plug/skt
Sony	SLV777B	No drum or capst 1st time tape loaded	Check for electrolyte gunge around the 5 pins of 9v reg

Sony	SLV8	Int ejects & sw off	dry joints IC201 pins
Sony	SLV815B	Interference on pback pic	Elna caps in psu - C207 820µ 10v leaked
Sony	SLV815UB	Dead - smell of fish	Fit psu repair kit from CHS
Sony	SLV815UB	Unlaces as soon as tape starts to lace	Dry joints to drum motor
Sony	SLV825	Dead with st/by LED lit but no display or life	Backup cap OF33 0FD2 5.5v on display pcb leaked/corroded track & check C604 back up batt on front panel
Sony	SLV825	Int E-E	R216 10R in PSU hi res in psu reducing 35v to 7v
Sony	SLV825	St/by only - no display	Back up cap 0F22 on display pcb leaked & corroded pcb
Sony	SLV825/835	Int wont sw on & no display	reset line Pin 16 proc being held low approx 3V. Caused by leaky back-up cap C604. Replace ribbon lead, part no. 1-696-440-11, connector CN4021, part no. 1-563-619-21, & C604, part no. 1-125-705-11. Replace all 3 items at same time & clean cct board around back-up cap
Sony	SLV825UB	No display - st/by only	C604 back up battery on front panel
Sony	SLV825UB	On/st/by leds flash alternatively when mains powered	C207 2200µ 16v in psu
Sony	SLV825UB	Poor pic E-E with bent verticals	C13 1µ 63v in IF
Sony	SLV835	Display fades aft power up, LED goes red & no mechs	Check back up battery
Sony	SLV835	St/by only with no disply	0F22 5.5v backup cap had leaked on pcb causing hi impedance leakage
Sony	SLV835UY	Dead apart from st/by led - no display	0.22Fd backup cap behind front display leaked & corroded print
Sony	SLVAV100	Echo on playback sound	Select Audio menu & turn off audio mix mode
Sony	SLVAV100	No pic or sound on E-E & Pback - can be int	Dr joints IC801 & IC802 on RG40 board (+ & -ve 12V regs).
Sony	SLVAV100UX	No pic from RF or scart	Vid from tuner reaching sw/scart pcb 1056, but +&- 5v supply missing. Check 2 X 0R47 res on board T012 on sec side of mains Tx for o/c
Sony	SLVE10UX	Dead	PS121 N25 1A cct prot
Sony	SLVE10UX	Tape jams ½ way in cassette housing	Sony mod fit split spacing washer on LH side of spindle
Sony	SLVE15U	Ejects tape when going to rec	buckled anti-record leaf switch located under deck ass'y o/c. Straightening provided the cure.
Sony	SLVE20	Tape rises up capstan in rev search	Fit replacement pinch roller ass'y A6759615A
Sony	SLVE200	Dead with no o/p from psu	Checked pri caps - ok - replaced psu control chip UC3844A to cure it
Sony	SLVE200	Shuts down when tape inserted -worse when cold	Loading motor not completing its cycle due to tarnished commutator on motor - managed to repair motor
Sony	SLVE200	Won't accept tape, cassette symbol perm lit	Q5101 2SC4483 in psu o/c
Sony	SLVE200/250	Int slack tape on eject	Excess capst brake friction - replace brake lever ass'y
Sony	SLVE200/250	Tape stuck - reverts to st/by	No +13v supply due to D5110 in psu dry jointed
Sony	SLVE200UX	No pic or menus - rf or scart	No 36v to tuner - D5103 leaky, R5110 o/c

Sony	SLVE205	Tape jammed - loading motor overheating	metal peg in lever that operates back tension arm had slipped out of cam - reposition & superglue
Sony	SLVE210 etc	Jams at lace up	Check tension band for sticking on supply reel - if so replace
Sony	SLVE220	Capstan servo problems	Caused by IC351. Replace with part no. 1-801-270-11.
Sony	SLVE220	Cuts out in rec - pback ok	PR512 1A fuse increased resistance - on psu towards front - can be reached from underneath
Sony	SLVE220	Cuts out in record but plays Ok.	PR512 1000ma fuse had increased in value (On PSU towards front)
SONY	SLVE220	DEAD	CHECK CIRCUIT PROTECTOR J5131
SONY	SLVE220	DRONING NOISE ON PLAYBACK	REPLACE IC101
Sony	SLVE220	Int stops & switches off in Rec mode only	PR512 1R res in psu (risen in value)
Sony	SLVE220	Int tuning loss & hum on e-e & rec sound	PR512
Sony	SLVE220	Setting RF Modultor	From stby, press and hold "Preset" on front panel for 3 secs, rf chan no will appear in display, alter using "Channel" + and - and press "Preset" to store.
SONY	SLVE220	SWITCHES OFF ON RECORD	REPLACE PR512 SONY180156700
Sony	SLVE220 etc	Dead - clock shows briefly at power up	1A fuselink J5130 in 5v supply hi res (2R5)
Sony	SLVE220/280	Hum on sound	Caused by faulty C5117. Replace with part no. 1-126-162-11.
Sony	SLVE220/280	Hum on sound, shuts down in record, and no operation.	PR512 on CP-1 board goes high res or O/C. Replace with 1.25A 125V comp part no. 1-801-567-11. Important: Replace PR512 whenever a unit comes in for repair, regardless of symptom.
Sony	SLVE220UB	Int cuts out	cct prot PR501 hi res
Sony	SLVE220UY	RF modulator - resetting	set in s/by press & hold "preset" for 3 secs Adjust via "chan+" press preset to store
Sony	SLVE225	Squealing from drum	Static disharge brush under drum lub (No need to remove deck)
Sony	SLVE230	Dead with psu pulsing (after coins inserted)	PS600 2A fusible link
Sony	SLVE230	Int failure to eject cassettes - just whirrs & shuts down	Split worm on loading motor pt no 3-977-436-01
Sony	SLVE230	Int jams on eject	Cracked sleeve on load motor worm pt no X3947-577-1
Sony	SLVE230	RF o/p int reverts back to chan 22	L600 68µH pin 8 psu module int o/c (in UNREG 30V feed)
Sony	SLVE230UY	Rewind poor on last 15 mins	Due to shiny lower drum - improved with duraglit
Sony	SLVE25	No pback - just Blue screen - ok in search	Pinch roller not engaging - circlip missing
Sony	SLVE250	Int chews tape - slack tape on eject	Mode sw
Sony	SLVE250	Int leaves loop of tape out on eject	Due to sticky back tensiion band sticking to supply reel
SONY	SLVE25UY	LEAVES LOOP OF TAPE ON EJECT	CHECK CONDITION OF FELT ON BACK TENSION ARM
Sony	SLVE25V	Cuts out aft few secs in play	Drum too slow - motor faulty
Sony	SLVE275	Rewind poor or inop - no pic rev search	Slide crescent damaged & broken soft brake
Sony	SLVE280	Capstan servo problems	Caused by IC351. Replace with part no. 1-801-496-11.

Sony	SLVE280	Dead	PR512 o/c in spite of being uprated to 2A
Sony	SLVE280	Poor rec sound & int rec	N25 cct prot
Sony	SLVE280	PSU & display pulses every sec	JS130 cct prot had been replaced with Wickman fuse - use correct cct prot
Sony	SLVE280 etc	Int reverts to st/by in Rec	PR512 cct prot gone hi res can also cause excess audio buzz
Sony	SLVE280UX	Int stopping in play/rec then dead	Fuse PR512 o/c
Sony	SLVE285	Int wont eject	Load motor gear cracked - order as cpt unit with motor
Sony	SLVE295UX	Int refuses to eject a tape with whirring then sw off	Loading motor worm cracked
Sony	SLVE373	Dead aft an hour or so playing	MA2821in psu pri, C202 3300mfd &C208 1500mfd leaky & C108 1mfd in the primary
Sony	SLVE40	Capstan motor int rotation	PS450 N5 fuse hi res
Sony	SLVE40	Clicking noise & unsteady pic in play	Arm ass'y trigger gear (item 932) missing
Sony	SLVE40	Int noises, shows "L", slack tape on eject	Mode sw pt no 3-946-958-01
Sony	SLVE40	No eject	mode sw
Sony	SLVE40	Won't open cassette front flap when tape inserted	Post broken - same as used in Aiwa HVF11 series see explopded view in CHS cat
Sony	SLVE40	Won't play , loops tape , shows 'L' in display very int	Replace mode switch 3-946-958-01
Sony	SLVE40UX	Int goes dead with no display	Pin 1 CN1 on front display panel dry joint
Sony	SLVE520	Droning noise on playback audio	Fusible link PR512 in psu
Sony	SLVE520	No rec - m/c sw off	PR511 fusible unable to cope with current
Sony	SLVE520	Slack tape on eject	replace main take-up brake assy (pt 613-159-2193) available from Seme.
Sony	SLVE520UK	No record - sw off with no erase	PR512 CP in 5v rail increases from 0R3 to 0R6
Sony	SLVE529	Shuts down int in rec mode	PR512 gone hi res
Sony	SLVE530	Wont accept tape	loading gear take up item 819 broken
Sony	SLVE70	Chews tapes when fully loaded & sw off	Cam follower shaft snapped off - by the press block ass'y pinch - pt no A6759615A
Sony	SLVE70	Int stops & noisy in FFwd/Rew - housing not going fully down	Slack worm drive on cassette motor - slightly bend metal bracket holding worm gear
Sony	SLVE70	No play - slipping clutch effect	Replaced part 303 Chassis block ass'y pt no A-6739-096-A & 202 pendulum arm ass'y pt no X-3727-776-1 also mode sw pt no 1-571-920-11
Sony	SLVE70	No RF o/p in e-e & pback - SCART OK	IC101 XLH7776K audio proc chip on pcb HF34
Sony	SLVE70 etc	Tape jammed in loaded posn	Press block assy 'pinch' part no A6759-615-A - cam follower shaft snapped off
Sony	SLVE700	Dead	Replace C103/204 1µ 100v in psu also check 3 x 150k res near C103. PSU removed from bottom after removing jog/shuttle panel
Sony	SLVE700	Dead & no display after mains failure	C103 (1mfd, 100v) and C204 (1mfd, 50v) in metal can psu.
Sony	SLVE700	Tape chewing & tracking	TU tape guide buckling - held by flimsy spring arrangement. TU spring unit pt no - 3960-68801; Supply - 3960-68701

Sony	SLVE700 H mech	No take up & ejects at high speed aft initially sticking	Capst pulley split, & broken damper arm rh side of housing (secures torsion spring) - not available as spare part - whole housing must be ordered
Sony	SLVE700B	Dead	R154 2M2 (1/8th watt) resistor in primary of power supply O/C
Sony	SLVE700UX	Dead	C204 1µ 50v, C103 1µ 100v in psu can
Sony	SLVE700UX	Dead	Check caps in psu & check dc-dc converter by replacement
Sony	SLVE700UX	Dist sound e-e & L2 posn	IC102 sm scart sw chip BA7632AF-E2 - £7 from Sony Pt no 8759 44569
Sony	SLVE700UX	Nicam sound crackles on one chan in E-E	IC102 BA7632F sm audio sw chip noisy (pcb on top lh side of vcr)
Sony	SLVE700UX	Sound dist & low in E-E - not quite so bad on scart	IC102 BA7632AF-E2 sm on smaller scart pcb rear LH - not the easiest to change
Sony	SLVE700UX	Tape chewing & gross tracking error	TU guide buckling - held in place underneath by bronze spring unit Pt no 3960-68801 (TU) 3960-68701 (supply)
Sony	SLVE70UX SR	Deck jams	Cam follower lower spigot broke off press block ass'y pinch - pt no A6759 863B
Sony	SLVE70UY	Dead	C103 1uF, C204 1uF, C202 1000uF and C203 2200uF. All inside metal can on PSU board
Sony	SLVE710	Carriage jumps out of time once a month	plastic cog slips out of alignment - fit Maint Kit H-MECH pt no A-7040474-C
Sony	SLVE710	Carriage out of alignment	If 1st 5 digits of carriage ser no between 60203-60531 change carriage for improved typeA-6751-496-H (See Nov99 TV)
Sony	SLVE710	Cassette flap catches on cassette at eject	replace housing
Sony	SLVE710	Cassette housing out of time	Fit gear kit mod which inc gear that drives carriage
Sony	SLVE710	Display flashes, capstan twitches, cass loads/unloads aft 10 mins	C253 1200µ 10v
Sony	SLVE710	Housing mod spacer washer	part number.....3-973-667-11 for the special spacer washers
Sony	SLVE710	Int refuses to accept tape (thinks one is already in)	Check centre LED, both end sensors, rec safety switch, & R264/5 39k sm res
Sony	SLVE710	Loading motor plastic lug - obtaining	Can use Pan VDP1660 with a bit of adj on ass'y
Sony	SLVE710	No loading - motor ok when ext powered	12v present at pins 2 & 10 of BA6209 drive chip when cassette inserted, break in continuity to motor at plated hole
Sony	SLVE710UX H deck	Chewed tape due to lack of take up tension	Toothed pulley dropped off capstan flywheel - glued back on
Sony	SLVE720	Cass Mechs jammed	Driving gear from main deck (item 262) damaged teeth. Fit replacement gear set which includes gear 262 & mating master cam 261 which MUST also be replaced
Sony	SLVE720	Dead	CP PS601 1.6A pt no 1-532-841-21
Sony	SLVE720	E-E & Rec int snowy/no sound , just buzz - loop thro' ok	Bad joints tuner module earths
Sony	SLVE720	No PLAY or STOP with bottom cover removed	This is normal if earthing strap not fitted (FFwd & Rew OK)
Sony	SLVE720	Tuner low gain	dry joint earth tag next to agc pot

Sony	SLVE720	Tuner low gain - ok on loop thro' & pback	Dry Joints tuner/receiver module
Sony	SLVE720	Won't accept tape	mode sw
Sony	SLVE720 etc	Front control inop, & no pback pic (head sw)	C701 470u bulges & corrups eeprom - ensure fit correct polarity (board markings may be wrong) & reload eeprom settings
Sony	SLVE720 H mech	Noisy in pback & rec when heated (scraping noise)	Capstan motor faulty
Sony	SLVE720/820 Samsung	Various inc no display, no front control, no Pback	C701 fitted wrong way round & pcb markings wrong - causing it to die - corrupts EEPROM - Sony Tech bulletin available on how to restore EEPROM settings
Sony	SLVE720UX	Display int	Dry joints CN601 psu connector
Sony	SLVE720UX	Int loss e-e sound & pic (not always together)	Dry joints earths on edges of IF module
Sony	SLVE720UX	Sound dist with background noise	Check HiFi setting is not set to 'Mix' with R/C
Sony	SLVE720UX	Tuner gain int	Dry joints tuner earths
Sony	SLVE730	Chews tapes int	Back tens arm catching tape - adjust tension spring
Sony	SLVE730	Dead	Caused by R151, R152 or R153, C153, C154. Check & replace as necessary. Part no.s: R151/2/3: 1-249-725-11; C153: 1-126-967-11; C154: 1-126-960-11.
Sony	SLVE730	Dead apart from single squawk at sw on	C153 47µ 50v & C154 1µ 50v in psu
Sony	SLVE730	No Col	Caused by faulty C242. Replace with part no. 1-109-982-11.
Sony	SLVE730	Tape stuck	Slider assy broken - pt no 3-977-442-03
Sony	SLV-E730	dead, after mains has been removed	C153 (47uF/50V) in PSU metal box
Sony	SLVE730UX	Dead	C153 47µ in psu pri & check other caps whilst psu can is removed
Sony	SLVE730UX	Dead	C153 47u 50v hi esr inside psu can
Sony	SLVE730UX	Dead apart from squealing noise from psu chopper trfmr	C153 hi esr
SONY	SLVE7UB	DIM DISPLAY	REPLACE C207 1000MFD63V IN POWER SUPPLY SONY112691651
Sony	SLVE8	Capst motor graunching at end of tape	Capst belt tension wrong - should use torque screwdriver to set up
Sony	SLVE8	Fails to eject	Dry joints on IC201
Sony	SLVE8	No rew or rev search	end sensor
Sony	SLVE80	Ejects tape after insertion/loading	Take up side load cantilever load arm jamming in plastic slot under deck. Bend lever to prevent jam
Sony	SLVE800G	Dead even after fitting Sony psu mod kit	IC151 TDA16846 power chip faulty - also replaced feedback opto coupler
Sony	SLVE80E	Won't accept tape - works ok if manually wound in	Mode sw replaced - cleaning didn't work
Sony	SLVE80UX	No operation due to Fuse PS201 blown	Loading motor
Sony	SLVE810	Cassette doesn't go all the way down when accepted	Change eject gear item 262 AND main cam item 261
Sony	SLVE810	Head drum won't rotate	resolder joints on IC on head motor

Sony	SLVE811	Mechs operates correctly until you eject & then reinsert tape	Wont accept tape 2nd time until mains is reapplied - mode sw
Sony	SLVE815UB	Hi Fi sound int although stereo ind stays lit	Replace all purple elects on audio board HF9
Sony	SLVE820	Cassette housing jammed or damaged	Cassette flap damper too sluggish - disable or remove damper
Sony	SLVE820	Front control operate wrong functs, no display, e-e or sound - head sw out	C701 470mf 10v (panel marked wrong fit other way) & reset option bytes - details in vault
Sony	SLVE8UV	Int rec/pback	Check 2 x 10µ 50v caps in psu
Sony	SLVE920	Display absent	Q612 never been soldered
SONY	SLVE920	NO CLOCK DISPLAY	Q607 2SD774 IN POWER SUPPLY
Sony	SLVE920UK	No display - ok in all other respects	Q612 in psu dry jointed (power saving - display off)
Sony	SLVE920UX	Dead	R602 220k in psu pri
Sony	SLVER7UY	Int shutdown when a function is selected	Dry joints drum motor plug CN1 under deck of MD56 pcb
Sony	SLVESE700	Cassette stuck in & no mechs	main load cam at an angle with respect to deck - slider B bent - replace with pt no 3-053-878-01
Sony	SLVESE720/820 Scorpion II	Incorrect key operation, no pic, wrong menu language etc	EEPROM corrupt - Press test button, then hold menu button for 5 secs to bring up Option Setting. Set as for model in manual & reset head sw aft. If test button is inoperative use Record key.Replace R668 & 669 4k7 sm Pt no 121606591
Sony	SLVF900	RF modulator enabling	Go to "Other options" menu & turn mod on
Sony	SLVF900B	Dead - no display	C153 47µ 50v & C154 1µ 50v in psu
Sony	SLVF900UX	Dead with no display	47µ 50v cap on pri side of psu
Sony	SLVSE210 Samsung	Int tangles tape in Play & search in both directions	Replace item K200 Holder clutch ass'y pt no AC61-21012A (SEME VDC7733) & possibly Gear Centre Ass'y SEME VPAR73366
Sony	SLVSE30UX	Damaged tape - int	Take up brake assy broken & spring dropped off - can be repaired
Sony	SLVSE700	Mechs - small plastic lever broken	Gear, TG8 Arm Driving P/N 3-977-465-01 common problem. Also Gear, Pinch Pressing P/N 3-977-445 02 is often damaged as well.
Sony	SLVSE700/800	Poor picture on own recordings	C228. Check its value - it should be 390pf. If not, replace it with part no. 1-163-131-00
Sony	SLVSE70UX	Chewing tapes - tape ends up around back of heads	Pinch roller suspect
Sony	SLVSE710	Dead	R156 o/c in psu - replace R156 & 157 2M2
Sony	SLVSE710G	Chews tapes on eject	No capst reverse functs - cap motor
Sony	SLVSE720/SV651	Incorrect front functs	Incorrect Eprom data. Press R switch on front of PCB then hold Menu button for 5 seconds and enter option data. Option data is 4,5,6,8,9,10,11,12,14,18,25,26,29,33,38,40,41,46,49,50,53,60,61,62,63,72.
Sony	SLVSE80	Dead	C153 (47uF 50V) and C154(1uf 50V) in primary side of power unit

Sony	SLVSE810	Tape loading inop	Low 12v supply to loading motor - Q201 2SB1240 in front of psu faulty - fitted BD180 in lieu
Sony	SLVSE85UX	No pback - head speed wrong, shuts down aft I min	CTL pulses missing - IC160 Syscon IC U/S CXP88460-013Q Pt no 875291008
Sony	SLVSF90UK etc S-Deck	Won't accept cassette	The record protect lever (item 755) is broken, part number 3-977-513-01.
Sony	SLVX10	Int sound rec no bias osc	Supply low at pin 1 LA7294 IC201- Q2001 leaky
Sony	SLVX10	Snowy pic & no sound	No CTL pulses pin 4 LA7123 pulse amp IC352 - chip faulty
Sony	SLVX20series	Blue screen only in pback	CTL pulses of low amplitude - ACE head dirty
Sony	SLVX325	Slack tape on eject	Clutch ass'y tight, lub didn't improve so used small round file to enlarge hole slightly
Sony	SLVX50DH	Loss of capst servo (cyclic interference)	CXP80116 IC501 sys contr chip sm
Tatung	DVR744N	No E-E sound	Replace NVM memory chip & reprog
Tatung	TVC563	St/by only	EEPROM IC1099
Tatung	TVC563	Won't stop at a chan when in search mode	EEPROM IC1099
Tatung	TVR2121	Cassette stuck, limited operation of loading motor	Capstan motor faulty
Tatung	TVR6111	Int operation/display	Xtal X801 faulty or dry joints
Tatung	TVR6111	No Ffwd/Rew	Rubber damper pt no U153091
Tatung	TVR6122	No tuning volts	R5 100k in psu
Tatung	TVR6122	Sound Flutter	Worse on own recs - reel drive clutch pt no 250814
Tatung	TVR6122	Tuning drift & long time to select chan	Tuning volts low - Q1001 2SA1038 stab tr faulty
Tatung	TVR6141	Dead	D801-4 rect diodes
Tatung	TVR6151	Int ghosting e-e/rec	dry joints SAW filter in IF
Tatung	TVR7121	Int shut down in rev search	mode sw pt no QSW-R0026GEZZ
Tatung	TVR7121	Pulsing capstan speed	Check FG gen on motor is seated correctly
Tatung	TVR7121	Tape stuck - sw to st/by aft 2 secs	Loading motor drive chip IC802 BA6209 u/s, a new one went same way due to faulty loading motor
Tatung	TVR7211	Ffwd/Rew int	Int wind solenoid op due to mode sw
Tatung	TVR7211	Int ffwd rew	Cam switch
Tatung	TVR744	No e-e sound and slow AFC action	eeprom IC1002 replaced and reprog
Tatung	TVR744N	Rec pic all noise & Patt - Sound, E-E & Pback ok	TA1232N video proc chip IC4001
Tatung	TVR774N	No sound E-E	NV memory chip sus - replace
Tatung	TVR844N	Improper loading & slack tape on eject	back tension band
Tatung	TVR912	Play stops aft 1 sec, counter erratic	ripple on pin 22 micro. R904 0R27 safety res o/c, D907 1N4003 s/c
Tatung	TVR912/914	jumps between SP & LP on own recs in LP	IC801 system/servo chip faulty (expensive)

Tatung	TVR932S - Matsui	Slack tape on eject	Supply clutch split washer had dropped off
Tatung	TVR933	lack of lum and tearing in rec. E-E ok	IC4001
Tatung	TVR933	No eject & no reel brakes	Mode sw
Tatung	TVR933	Snowy e-e with low lum	AGC o/p pin 2 IC4001 low & cramped - chip faulty
Tatung	TVR933	tape stuck - st/by only	no capstan rotation - motor faulty
Tatung	TVR933V	Shut down aft 3 secs in any mode	R1013 o/c - feed to t up reel sensor
Tatung	TVR933V etc	Mechs erratic - won't eject or accept commands	Lighthouse LED or mode sw
Tatung	TVR933X	Int eject - switches on/off by itself	Lift shuffle on its own - LED D1001 low emission
Tatung	TVR935V	No tuning or pback pic	32v supply missing - R529 100R o/c
Tatung	TVR952	Cass housing jams at end of eject	FL arm/lever 621C2500010 warped and catching housing slider
Tatung	TVR952V	Int accept/eject tape	mode sw
Telefunken	M9560 R5000	Display missing	CP41 -220 micro in secondary
Telefunken	M9560 R5000	PSU tripping at intervals 4 - 6 secs	Check caps in pri, 2SA1020 transistor & diode in psu sec
Telefunken	M9560/FV90	No RF o/p via modulator	This model does not have a modulator - o/p via scart only!
Texet	DVT9254P	Accepts cassette halfway then ejects	Tower LED jamming cassette - had moved, resited & glued
Thomson	R4000 series	No eject - replacement of wishbone after main cam pulley loses its cam follower lug	Can remove long zinc arm to brake lever by easing it up & off the cam - making swapping the wishbone easier - alighnment of deck done in housing up posn (Translated without knowing what I am talking about!)
Thomson	R6000	No still pic	Normal for this model
Thomson	V321	Slack tape on eject	D229 1N4148
Thomson	VHT6080	Int play - goes to st/by & noise bar bottom of screen in slow	Pinch roller cause
Thomson	VPH6557	Dead & ticking PSU	Replace 2 electrs in pri side of PSU 10uf (50v), 100uf (25v)
Thomson	VPH6590U	Sw o/p between SECAM & PAL	Press "A" button on hset to get into tuning menu then press AV to get back to SYS4 - then its back to PAL
Thomson	VPH6787	Dead aft display prev started getting dimmer	2 primary caps CP007,CP008 and CP041
Thomson	VTH6021U	Dead after mains cut	DP066 1N5822 on PSU sec s/c
Thorn	VR172L	Dead	IC101 6v reg KIA78006
Thorn	VR172L	Dead - no 5 or 6v supply	IC101 7806 6v reg - can use 5v reg with 2 1N4148s in place of W109
Thorn	VR172L	Dead except for modulator	6v o/p low at 2v - KIA78006A reg faulty
Thorn	VR172L	No front display & tape stuck	Replace the 6 volt regulator in the psu as it was only giving out 2.5 volts
Thorn	VR182LV	Dead - no o/p from psu	IC5003 reg s/c, D5004 1SS244 on pri side leaky
Thorn	VR194LV	Dead	D504 1N4148 in psu pri leaky
Thorn	VR202LV	No R/C operation & int goes into Ffwd/Rew on its own	C5109 47µ 25v in -23v line under psu cage

Thorn	VR204NV	Dead with low whine from psu	C5101 & C5108 in psu
Thorn	VR212LVA	Dead	IC10 KTA7806 in separate psu only producing 2v instead of 6v - reg faulty
Thorn	VR414	Dead	Replace CP19 1000mfd CP11 33mfd in PSU
Thorn	VR414LVA	Dead	Opto ICP02 PS2561, BDP01 S1WB s/c, LP01 burnt & o/c both in psu, Q406 2SA1266 s/c, ZD702 KIA574 leaky, ZD505 27v s/c, R581 6R2 o/c all on main pcb,
Thorn	VR414LVA	Dead	Check or replace CP19 (1000mfd 10v), CP22 (470mfd 25v) and CP25 (100mfd 16v)
Thorn	VR414LVA	No Fwd, Rew & chews tapes	Supply reel clutch replaced & TU reel clutch due to clicking in play
Thorn	VR414LVA	Timed recs - only recs chan 3	Chans 1, 2 & 4 don't rec. ok manually - sus PDC - turn PDC off
Thorn	VR414LVA	Tuning lost when tape inserted	32.5v supply low at 18v at coll Q406 2SA1266. Transistor leaky
Thorn	VR414LVA LG/Goldstar	Sound poor with hum in PBack	Q405,[KTC3205] in the bias circuit had a slight leak b/e - for good measure change the pnp transistor Q404, [KTA1266]
Thorn	VR426NVA	Tape stuck - reverts to st/by	No +13v supply due to D5110 in psu dry jointed
Toshiba	631UK	Head sw point adj	1) Play alignment tape. 2) Press “SW703” button on Main PCB with pincers to set adjust mode. 3) Press “SP/LP” button on R/C then adjust is operated automatically. 4) Turn Power off.
Toshiba	631UK	NVRAM settings	4, 5, 6, 8, 9, 10, 11, 14, 18, 25, 26, 29, 30, 33, 38, 40, 41, 46, 49, 50, 53, 60, 61, 64 also need to set up head sw point
Toshiba	V109/209B	No mechs - clock ok	STK7253 & check caps in psu
Toshiba	V109B	No col in pback	STK7253 9v o/p low
Toshiba	V109B	No PB colour .	9v rail low (7.5v) STK7253 regulator U.S.
Toshiba	V110	dead - no clock	TP03 BD202 s/c - DP011 zener s/c - fuse FP02 o/c
Toshiba	V110B	Drum speed varies & eject slow	TT52 BD435 5v reg on main pcb
Toshiba	V110B	erases pre-recs	TW56 BC585B rec supply tr faulty
Toshiba	V110B	erratic deck functs carried out slowly	sw 12v supply low at 1.5 - 6v. DP08 crowbar zener & DP07 6v8 zener faulty
Toshiba	V110B	Locks up going from ffwd - play or play - stop	U2559B servo ctl reset chip IT46
Toshiba	V110B	No display or mechs	No 5v to micro - dry joints TT52 transistor
Toshiba	V110B	No functions 5V logic supply low at 4.5V	Replace IT46 (U2559B) servo control Pt No 70010170
Toshiba	V110B	Only receive chans below 43	BP08 test point only 13v (33v) - ZTK33B DP04
Toshiba	V110B	Pulsing pic in e-e	XK03 2.4v backup batt on key display pcb
TOSHIBA	V110B	SLOW DECK FUNCTIONS AND CUTTING OUT	REPLACE DP08 AND DP07 BOTH ZENER DIODES IN THE POWER SUPPLY
Toshiba	V110B	Striations in pback- e-e & pback sound dist	CN77 2µ2 50v (base of TN81 5v switch)
Toshiba	V110B	to store tuning info	enter chan no then prog posn & HOLD the 2nd digit until it stores
Toshiba	V110B	varying capstan speed when heated	interference on pback CTL pulse at tp BT23. Capst motor faulty
Toshiba	V110B	Will not accept cass No capstan rotation	TT68 (BC557) o/c

Toshiba	V110B/V210B	Fuse FP01 630mA blows for no apparent reason	CP01 0µ1 -replace with 4700pf 275v
Toshiba	V110B/V210B	Patt/dist pback & e-e/int col etc	DT53 2.7v zener in Vid 5v supply leaky
Toshiba	V110B/V210B	To do a full reset	Hold 'timer' & '-' buttons whilst applying ac power
Toshiba	V110B/V210B	Tuning drift or no tuning at higher freqs	DP04 ZTK33B reg
Toshiba	V204	Int functs - ejects, shuts down	Check/replace electrolytics in psu
Toshiba	V204 etc	Buzzon sound some chans	Excess vid mod - adj orange pot in tuner/mod
Toshiba	V204 etc	Chews tape or erratic capstan	Poor conns capst motor connector
Toshiba	V204 etc	Dead - psu pulsing primary	U4614B chopper cont chip IP001
Toshiba	V204 etc	Dead with pulsating psu	Capst motor B560 s/c across 14v line
Toshiba	V204 etc	Head sw lines & wont adjust	Stored in eeprom ST24CO4/CB1 IT003 - chip faulty
Toshiba	V204 etc	No col pback	15nf 50v cap connected to pin 21 of YC proc
Toshiba	V204 etc	No eject	B470 loading ass'y gears worn - replace with improved version
Toshiba	V204 etc	No pback or e-e pic	No supply to RF modulator - CW001 100µ
Toshiba	V204 etc	Wow on sound in LP on own recs	Wear on supply & TU reels - replace Supply = 70031328, TU = 70031335
Toshiba	V204 V254 V404 V454	Dead PSU supplies OK	EEPROM IT003 ST24C04/CB1 faulty: no data at pin 6 and the DC voltage is wrong at 0.8V instead of 4.8V
Toshiba	V204 V254 V404 V454	No colour video streaking on playback:	CV21 (0.015uF) at IV001 pin 2 leaky or if additional 27pF cap is fitted between pins 21 & 25 it maybe touching a ground point:
Toshiba	V204 V254 V404 V454 V804 V854	Inaccurate clock:	Adjust C552 using non metal tool and refer to Service Date for V804B page 2-4.7 for Cat 1 models there is no Tp501 test pin so use pin 63 of IT001
Toshiba	V204B	Dead	CP007 10µ & CP008 100µ in psu
Toshiba	V204B	Dead & ticks	CP007 10µ 50v in psu
TOSHIBA	V204B	DEAD OR LOW DISPLAY	REPLACE CP007 100MFD50V
Toshiba	V204B	No display or mechs	CP007 10µ 50v, CP008 100µ 25v on psu primary
Toshiba	V204B	Sound varies	Check t/up or supply spools for wear
Toshiba	V204B etc	Dead - psu ok	ST2404/CB1 eeprom IT003 (no data pin 6 & dc volts only 0.8v (4.8v)
Toshiba	V204B etc	No col, vid streaking in pback	CV21 0.015µ pin 21 IV001 leaky or additional 27pf cap between pins 21 & 25 touching print
Toshiba	V204B etc	No display	RP051 39R fusible o/c
Toshiba	V204B etc	Shuts down when hot	discard cover on component side of psu
Toshiba	V204B etc	Stops 1/2 way during loading - int	DT102 1N4001 in capst supply bad connection

Toshiba	V204B etc Cat 1	Dead no POWER GOOD signal at BP002 pin 5	DP052 (BAV20) u/s Replace Pt No 70011966
Toshiba	V204B etc Cat 1	No audio playback	CS012 (0.22uF) at pin 12 of IS001 o/c
Toshiba	V204B etc Cat 1	No video on playback , E-E and OSD . I2C SDA and SCL at tuner-modulator pins 10 & 11 have correct DC and timing pulses on them but no burst of data when remote operated . Service mode EEprom reads 00 .	Tuner-modulator faulty . PtNo 70012019
Toshiba	V204B etc Cat 1	Power cuts out very intermittently	IP001 (U4614B) switching control ic u/s Pt No 70011972
Toshiba	V204B V254B	Dead no POWER GOOD signal at BP002 pin 5	DP052 (BAV20) u/s Replace Pt No 70011966
Toshiba	V204B V254B	No audio playback	CS012 (0.22uF) at pin 12 of IS001 o/c
Toshiba	V204B V254B	Power cuts out very intermittently	IP001 (U4614B) switching control ic u/s Pt No 70011972
Toshiba	V205	No RF or E-E sound / pic - sound in AV only	12VS rail to the tuner, modulator and IF was missing. I traced it back through TW003, TW002 and TW 001 to CW001 (100uF10V), which read 60 ohms.
Toshiba	V205B etc Cat 1 & 2	Crushed whites on Pb (via modulator only) .	TW003 2SC2236-Y 12v regulator low OP (11v) . PtNo A6325549 .
Toshiba	V205B etc Cat 1 & 2	Dead or pulsing outputs from PSU .	CP007 10uF 50v or CP008 100uF 25v , if no better replace IP001 U4614B PtNo 70011972 . Power unit is availiable as a complete replacement unit .
Toshiba	V205B etc Cat 1 & 2	Dim clock .	CP041 220uF 25v .
Toshiba	V205B etc Cat 1 & 2	Intermittent Video & Audio mute , E-E and PB .	QT102 (QT001 on Cat2 HiFi) 17.7Mhz Xtal faulty . PtNo 70012188 .
Toshiba	V205B V215B V255B V3 Cat1	No picture on either E-E or PB .	No supply to RF modulator . CW001 100uF in TW001 base cct faulty .
Toshiba	V209	No mechanical action	STK7253 Multi regulator chip
Toshiba	V210B	No col pback & black lines	CV13 47n 63v (pin 12 IV08)
Toshiba	V211	Playback of test cassette OK but Cyclic wow every 4 secs	Control head dirty Strange no picture disturbance
Toshiba	V211B	Wont accept tape	IT18 U2561B FG/CTL pulse amp chip pt no 70010166
Toshiba	V211B/411B	Dead FP01 630mA o/c	Change CP01 filter cap from 0µ1 to 0µ0047

Toshiba	V212	AFTER GOING FROM REW TO PLAY OR FF TO PLAY SOMETIMES MECHANISM LOCKS AND VCR SHUTS DOWN	REPLACE BOTH CAM SENSORS (PHOTO-INTERUPTERS)
Toshiba	V212	E-E pic shows in pback	IW20 shift reg chip MC1409
Toshiba	V212	No e-e or pback sound	RP86 o/c, 14v reg s/c in psu & check caps
Toshiba	V212	Playback pic pulls from side to side	Dust on plastic cap beneath drum
Toshiba	V212	Will either not load or Eject	Loading motor u/s
Toshiba	V212 V312 V412 V213 V413 V513	Tape speed slow: Capstan motor bearings seizing	Try separating motor and greasing , if still poor replace motor . Pt No 70011046
Toshiba	V212 V312 V412 V213 V423 V513	No display Capstan running continuously won't turn on	Replace IT25 U2559B Pt No 70010977
Toshiba	V212/3	Dead	DP71 BA158 33v rect on psu sec leaky
TOSHIBA	V212B	DEAD	CHECK TP91 IN POWER SUPPLY FOR S/C
Toshiba	V212B	E-E & Loop thro' snowy	12v to booster missing - TP91 14v reg BCP53-16 s/c e-c
TOSHIBA	V212B	INT REWIND	REPLACE NYLON POST K156 TOSH70030994
Toshiba	V212B	No rf output	Loss of 5 & 12v supplies; RP86 27R in psu o/c
Toshiba	V212B	Poor pic lock in play	Clean dust from cylinder cage on base of motor
Toshiba	V212B	RF out adj	Using the remote---press green button for 8seconds----adjust using + and - buttons---store by pressing exit or E button
Toshiba	V212B etc	Dead, no display all o/p volts at ½ normal	DP15 ZPD3V9 s/c - not shown on cct - under RP33 ww res
Toshiba	V212B etc	Erases sound of prev recs in play	bias osc perm on - CL05 0µ01 in osc stage o/c
Toshiba	V212B etc	Failure to erase prev soundtrack/patt	RL02 10R o/c, TL01 BC337 s/c
Toshiba	V212B etc	Int poor pback in SP - loss of o/p from 1 head	Tapping head pre-amp may clear - CQ05 &/or 06 trannies int o/c
Toshiba	V212B etc	Int reverts to st/by, buzzing & no display	TP91 reg BCP53-16 & RP91 1R5
Toshiba	V212B etc	Int/slow/jerky eject	dead spot on load motor pt no 70011062
Toshiba	V212B etc	Loads cass, drum starts, no play then goes to st/by and ejects tape	Dry joints pins 8, 9, 10 of conn BT06 (+5v supply to logic/servo chip IT01 missing)
Toshiba	V212B etc	No display - wont turn on, capst runs cont	U2559B reg IT25 holding 5v supply low
Toshiba	V212B etc	No e-e or pback sound - wont stop on search tuning	Audio mute is activated - no field sync pulses pin 31 IA40 - TDA8128 chip IA01 faulty
Toshiba	V212B etc	No e-e/pback pic	IW20 shift reg chip MC14094D
Toshiba	V212B etc	No functs - goes to st/by aft 2 mins	Cam 1 opto GT22 pt no 70010960
Toshiba	V212B etc	No mechs	Cam gear B710 jammed with stripped teeth also replace supply soft brake
Toshiba	V212B etc	No pback col - rec col ok	stby 12v low at 9.6v - DP86 10v zener & RP86 27R o/c
Toshiba	V212B etc	Playback speed slow	capst motor bearings - replace motor pt no 70011046

Toshiba	V212B etc	psu trips aft 1/2hr	DP08 6.2v zener
Toshiba	V212B etc	Slow rew & fast ffwd	TP81 & 83 MPS750 sm in psu leaky
Toshiba	V212B etc	snaps tape in ffwd/rew & no counter	no FG o/p pin 15 U2565B chip IT40 pt no 70010979
Toshiba	V212B etc	Wont load a tape - 7v capst supply drops	DP31 1N4001 faulty even tho measures ok
Toshiba	V212etc	Dead - psu buzzing	L2726 load motor dr chip
Toshiba	V212etc	Dead with drum rotating	TP83 MPS750 14v sw tr leaky
Toshiba	V212etc	e-e overload on whites & pback dist white	CN13 chip cap 220µ (between pins21 & 22 IN01)
Toshiba	V212etc	Erratic mechs & clock	CP81 1000µ in psu
Toshiba	V212etc	Field jitter/rolling pback pic	Dust build up on drum flywheel vanes
Toshiba	V212etc	Slack tape on eject	replace spring K188 pt no 70050638
Toshiba	V212etc	Triangular interference spots in pback	drum spindle static discharge - clean brush under drum
Toshiba	V213	Poor e-e/pback video (low contrast/pulling)	CW97 vid coupling cap 10µ low cap
Toshiba	V213	Poor rec sound	Audio o/p = 1.1v (1.4v) R023 22k changed to 18k (sm) (not official)
Toshiba	V213 etc	e-e pic & sound pulses on /off	II40 TDA5930 vid if chip on main pcb
Toshiba	V213 etc	Tape loads round drum, no cue/revue, tape unloads leaving slack tape	Photo coupler GT23 pt no 70010961
Toshiba	V213B	Dead with faint whistling sound from psu	Z821 in Always 14v supply pt no 23144480
Toshiba	V213B	Jerky tape on load & unload	Load motor faulty - winding resistance was 10R - should be 200R +
Toshiba	V213B	No record - just snow	ok aft dust brushed from lower drum
Toshiba	V213B	No sound mute in search int	ok aft dust brushed from lower drum
Toshiba	V213B	Shows e-e when playing tape int	ok aft dust brushed from lower drum
Toshiba	V218	won't start up from mains on	TW020 start up volts low. RP024 47k hi res
Toshiba	V218B	High pitched noise from psu LP050	CP041 2200pf pt no 24285222
Toshiba	V218B	int failure to power up from off	TW020 not receiving correct start up volts - check RP004/05/06/07/08/10/11/24
Toshiba	V218B	int rec col	CV061 0.047µ leaky connected to pin 54 vid proc chip IV001
Toshiba	V219B	Static blips on pback - may be int & work ok if vcr tilted	Drum earthing bracket on bottom of motor int contact - Toshiba supply mod'd type
Toshiba	V226	No Pback or E-E sound - ok in Rec	IS001 BA7795LS
Toshiba	V226B	Dead - no Power Good 5v at pin5 BP002 conn	RP052 1k hi res
Toshiba	V226B	No playback or e-e sound - rec sound ok	IS001 BA779LS audio rec/pback chip
Toshiba	V226B V426B V3 Cat1	Continuously auto tunes . No 33v to tuner .	DP071 BAV20 diode in PSU faulty , Check RP071 47R fusible . PtNo 70012434 (diode) 70040125 (resistor) .
Toshiba	V228	Drum speed int speeds up when heated	Dry joints drum stator coils
Toshiba	V228B	Dead	DP067 6v2 zener s/c, CP FP044 N10 o/c
Toshiba	V228B, V428B	No pic, mechs & dim display	All supplies 2/3rds normal - IP50 opto coupler

Toshiba	V229B	Interference on pback like tadpoles	clean the brass sprung earth tab at the back middle portion of the deck.
Toshiba	V229B	No display, won't accept tape, operate LED flashes	check 33µ cap in pri of psu
Toshiba	V229B	Tape spilling	Check centre clutch ass'y after removal of deck - top gear splits causing jam
Toshiba	V229B V429B V709B V729B	White flashing interference specks on pback	Poor cylinder earth - mod'd plate available or add earth wire
Toshiba	V232B	Dead	CP007 10µ & CP008 100µ 25v
Toshiba	V232B	Int revert to st/by & dim display	CP051 1uF 63V, CP041 220uF 10V, CP071 47uF 50V, CP093 47uF 50V, CP082 47uF 50V
Toshiba	V254	Looping on rew - capstan slow to stop	add 100µ 6.3v cap across Cap+5v supply; +ve to cath DT107, -ve to jumper JT035
Toshiba	V254B	Dead	CP008 100µ 25v, CP041 220µ 10v, CP051 1µ 50v, CP054 10µ 50v
Toshiba	V254B	Dead aft being unplugged	CP007 10µ 50v, CP020 100µ 25v, CP041 220µ 10v, CP051 1µ 50v, CP054 10µ 50v, CP071 47µ 50v all hi esr
Toshiba	V254B	Dim display	CP041 220µ 10v
Toshiba	V254B	Int dead & dim display	CP041 220µ
Toshiba	V254B	Int trip in pback	DT102
Toshiba	V254B	No col	ICV100
Toshiba	V254B	No sound e-e	reset micro
Toshiba	V254B	Poor pic, no col	CV021 (pin 21 IV001)
Toshiba	V3	Part numbers for ribbon cables (some suit certain machines only) . 6 pin from main PCB to loading motor & cam switch - 70011821 .	14 pin from main PCB to keyboard / display PCB 70011980 . 12 pin from main PCB to key / display 70011818 .
Toshiba	V3	Tape stuck in Vcr . Unloading gear will not lift cassette housing . Cam lever K470 has spigot broken off and cannot engage with FL slider drive .	Replace K470 with improved part . PtNo 70031477 .
Toshiba	V300	E-E & Pback pic dist - sound ok	C826 1200µ 16v, C822 47µ 16v, C823 1µ 50v, C824 220µ 16v
Toshiba	V300	No display but plays a tape	Replace IC820 (STK7251) , Z803 (N10 ICP) and Z810 (DC - DC Convertor 23107550)
Toshiba	V300	Speed too fast in play	Broken track found when capst motor dismantled - resoldered
Toshiba	V300B	Dew sensor always on	Dry joints on load motor pcb
Toshiba	V300B	e-e pic breakup - sound ok	C826 1200µ 16v, C822 47µ 16v, C823 1µ 50v, C824 220µ 16v
Toshiba	V300B	Int fails to record sound	lead between ACE & erase head pt no 70160889
Toshiba	V300B	No capstan rotation or sound in e-e	Dry joints Q506
Toshiba	V300B	No display - ok otherwise	Z803 N10 o/c
Toshiba	V300B	No display, led or functs	Connector PX02B (front of top pcb)

Toshiba	V300B	No functs - ejects then reloads	Q505 2SD1413
Toshiba	V300B	No pback sound	dry joints Z701 connector
Toshiba	V300B	No reel motor - tape spills in FFwd/Rew	Q625 2SB1187 o/c b-e
Toshiba	V300B	No tuning	Z801 CTX066 s/c, Z803 N10 o/c
Toshiba	V300B	Pback of pre-recs jittery	Adj PG1 & PG2 top pcb rhside
Toshiba	V300B	Sound warbles	IC501 TD6361N
Toshiba	V300B	Thick lines on pic	C825/822 47µ &C824 220µ on small daughter pcb on psu module
Toshiba	V300B etc	Dew sensor perm showing - 'd'	dry joints conns on loading motor pcb
Toshiba	V300B etc	Int audio erase	poor conns plug on ACE head
Toshiba	V300B etc	Patterning on e-e	L811 in psu shorted turns - pt no 23221817
Toshiba	V300B etc	Warble on sound	Servo chip TD6361N IC501
Toshiba	V309	Will not accept cass if cass in will not play	Timing gears out if no obvious reason suspect loading motor
Toshiba	V309B	No mechs - clock ok	Missing 9v supply from STK7251 - chip u/s
Toshiba	V312	Line across pic on pback & groaning noise from head drum - almost disappeared when head touched with finger	Remove dust from underside of drum motor with a fine brush
Toshiba	V312	Tuner drift	dry joints tuner esp earth lands
Toshiba	V312B	Dead apart from head spinning faster than normal	DP15 3v9 zener across RP33 in psu s/c (not shown on cct diag)
Toshiba	V312B	No functs - accepts cassette normally	Check data/clock pins 2 & 3 SDA5642 IW31 (vcrs without OSD) if ok dis pins 2 & 3 IW31. If vcr works IW31 is u/s - pt no 276TX4341
Toshiba	V312B	No RF o/p	crack in print by modulator
Toshiba	V312B	Sw between play/e-e in pback	IT01 shift reg chip corrupt data - replace IW85 pt no 70011398
Toshiba	V312B	To Ad RF Mod Freq	Depress green or 'B' button on hset for 8 secs until display shows RF chan, adj with '+' & fine tune with autotrack button. Press 'Exit' or 'E' to store
Toshiba	V321B	Drum motor unstable	Clean dust off optocoupler & 'windows' on head disc
Toshiba	V404	Dead - no Power Good 5v at pin5 BP002 conn	PSU o/ps low & pulsing - CP008 100µ 25v, CP007 10µ 50v
TOSHIBA	V404	TICKING POWER SUPPLY	REPLACE CP08 100MFD25V
Toshiba	V404B	Dead - psu faulty	CP007 & CP008
Toshiba	V404B	Wow on sound - tension band quivers	Incorrect seating of cam slider - replace all parts
Toshiba	V411B	Audio buzz in playback	Poor earth connection from ACE head at connector BS01 on main signal board:
Toshiba	V411B	Bent verts & weak sync	CA02 100µ on OSD pcb - use 16v type
Toshiba	V411B	Buzz in pback	Poor earth con ACE head conn BS01
Toshiba	V411B	Int sw between SP/LP	IT10 pulse amp chip U2561B
Toshiba	V411B	No capstan rotation	10µ cap on motor pcb leaking
Toshiba	V411B	No drum - just twitches	If capst CTL drive present pin 3 plug 152 on capst motor replace whole drum ass'y

Toshiba	V411B	No or poor pback col	TV37 BC558
Toshiba	V411B	Static Sparklies on Pback	earthing spring on lower drum worn through. To replace, mark posn of plastic enclosed magnet on lower drum wrt upper drum and dismantle. Make new spring and refit
Toshiba	V411B	Weak vid & bent verts	CA09 10µ on OSD pcb - use 35v type
Toshiba	V412B	Fails to erase prev sound	Fit repair kit TL01 Pt no 70903796 contents: TLOl 70010131 Transistor, BC337-40, LLO1 70011369 OCS Transformer, RL0l 24871479 Resistor, Chip 4R7, RLO2 70041491 Resistor, Fusible 47R ,CLO4 70041490 Capacitor,Chip 2n7, CLO7 70041223 Capacitor, Polyester 56nF
Toshiba	V412B	No erase of previous soundtrack	TL01 BC337 faulty, RL02 18R 1/4w o/c. Mod kit reqd pt no 70903796 incs:- TL01,LL01 tfmr, RL01 4R7 sm, RL02 47R fusible, CL04 2n7 cap, CL07 poly cap 56n.
Toshiba	V417B	For static sparkles on PB picture	Earth spring on head motor bearing worn thro -further text available
Toshiba	V423	Dead aft power cut	Check/replace elects in psu pri
Toshiba	V423B	FFwd & Rew slow - torque low	DP32 1N4001 in capst supply slightly hi res
Toshiba	V426	"AUTO" shows in display perm when plugged in	Will play tape with sound but no pic - CW001 on main pcb rear RH corner
Toshiba	V426	Display dim	CP041 in PSU - also check/replace CP007 & 008
Toshiba	V454B	Tape damage - capst motor slow to stop	Add 100µ 6.3v cap across 5v supply on comp side of pcb ; +ve to DT107 cathode, -ve to jumper JT035 (ground)
Toshiba	V513B	Blank raster e-e & pback	5v supply only 1.2v - FP02 630ma fuse o/c
Toshiba	V513B	Drum unlocked warbly sound	Dust off opto-couple assembly under motor
Toshiba	V513B	Low sound rec/pback	ACE head
Toshiba	V55	Int rew/rev search	Capacitor across start sensor us
Toshiba	V55B/57B	Dead - no display or funct lights	CP2 cct prot on servo/logic pcb o/c
Toshiba	V55B/57B	Dist verts/poor sync changes with pic content	C7 0µ047 if agc decoupler o/c
Toshiba	V55B/57B	Drum servo slow to lock	R463 drum discrim pot is noisy
Toshiba	V55B/57B	Int rec sound	poor conn at ACE head pl/skt
Toshiba	V55B/57B	Int rec sound with col patterns on pic	check for o/c lead at full erase head - if no bias osc increase C27 to 8200pf
Toshiba	V55B/57B	Int stops in play/rec	TU reel opto faulty
Toshiba	V55B/57B	Int stops in rew/rew search	C1 across start sensor s/c
Toshiba	V55B/57B	Intstops in play/ffwd & reverts to rew	C1 across start sensor s/c
Toshiba	V55B/57B	Noisy pic - like worn heads	Q504 in e-e supply leaky
Toshiba	V55B/57B	Speed slow in pback	Check volts at pin 6 IC401 - if low D206 is leaky
Toshiba	V610B	Dead - no Ever +6.5v supply	IC811 load coil L814 s/c turns pt no 70121102
Toshiba	V611	Wow & flutter on pback caused by capst bearings	Exchanged worn bushes from a capst motor from a Sharp scrapper
Toshiba	V611B	Dead - no display	No low reset pin 16 ICX01 due to QX03 2SC2458Y faulty
Toshiba	V611B	No col Rec/Pback - ok in E-E	Check "Auto/B+W" sw on back of machine

Toshiba	V611B	pback no col with flashes - e-e has pulsing col	STK7253 faulty - volts incorrect
Toshiba	V631	Front control inop, & no pback pic (head sw)	C701 470u bulges & corrups eeprom - ensure fit correct polarity (board markings may be wrong) & reload eeprom settings
Toshiba	V631/632 Scorpion II	Incorrect key operation, no pic, wrong menu language etc	EEPROM corrupt - Press test button, then hold menu button for 5 secs to bring up Option Setting. Set as for model in manual & reset head sw aft. If test button is inoperative use Record key. Replace R668 & 669 4k7 sm Pt no 121606591
Toshiba	V631UK	No SCART or RF video O/P aft TV connected to SCART	IC801 LA73024 44 pin sm chip
Toshiba	V632UK	Incorrect front functs	Incorrect Eprom data. Press R switch on front of PCB then hold Menu button for 5 seconds and enter option data. Option data is 4,5,6,8,9,10,11,12,14,18,25,26,29,33,38,40,41,46,49,50,53,60,61,62,63,72.
Toshiba	V632UK	No display & incorrect function plus no test mode.	Eprom corrupt. Rest Eprom as per manual. Press R button, which may not be fitted bin some machines. (Function as Test button.)
Toshiba	V632UK	No SCART or RF O/P	IC801 dragging down clock/data lines - IC faulty
TOSHIBA	V657B	CHROMA BREAKTHROUGH FROM PREVIOUS RECORDINS	CLEAN AND TIGHTEN CONTACTS ON FE HEAD
Toshiba	V65B/66B	Chan light only - wont sw on	Check sw5 & 12v - if low check D3
Toshiba	V65B/66B	Chan light only - wont sw on	No sw5v at pin 6 CN3 - CP4 is o/c
Toshiba	V65B/66B	Counter runs in stop	D3 slightly leaky
Toshiba	V65B/66B	Drum runs in reverse	R501 o/c, D408 leaky
Toshiba	V65B/66B	Half loads then unloads	D408 leaky
Toshiba	V65B/66B	Int drum	Dry joint Q1
Toshiba	V65B/66B	Int ejects & sw off	Loading mode sensor pt no 70673470
Toshiba	V65B/66B	No clock display	If -30v missing fus res R2 in psu is o/c
Toshiba	V65B/66B	No CTL pulse amp TP401	C405 o/c
Toshiba	V65B/66B	No drum rotation - just twitches	D408 leaky
Toshiba	V65B/66B	No rec - OTR & remote ok	IC101
Toshiba	V65B/66B	No st/by - TU reel & capst run continuous	If no sw5 &12v & pin 9 CN3 (ctl in) is 3.2v (1.8v) IC602 faulty
Toshiba	V65B/66B	Play stops aft 3 secs - no counter	Reel TU sensor
Toshiba	V65B/66B	Remote does not work in ordinary light	Add extra IR filter
Toshiba	V701UK	Reel drive snatchy	Centre gear as'y cracked pt no BY730111
Toshiba	V703	Dead or int functions	Replace all psu elecrolytics (use high temp types)
Toshiba	V703	Dim display	C810 15µ 10v & C813 47µ 16v in psu
Toshiba	V703	Tape chews on insertion of cassette	Tape rides up p roller on initial shuffle - pinch roller worn
Toshiba	V703B	Dead	STRD6202 C813 47mfd & C809 10mfd o/c on sub panel in psu 0R56 o/c
Toshiba	V703B	Dead	CP Z822 in Ever 6v supply o/c
Toshiba	V703B	Dead - no display	IC801 clock gen stopped - may be R802 75k 1/2w o/c

Toshiba	V703B	Dead - reset at pin 68 IC501 low & 8Mhz timer clock not running	no ac pulses from psu - TLP721 photocoupler IC801 Pt no A8645130
Toshiba	V703B	Dead No display	AC clock generator IC801 (in PSU) has stopped but IC is ok. R802 75K feed res O/C
Toshiba	V703B	Dead with STRD6202 s/c & F801 o/c	happens when psu caps faulty - fit service kit 70904175 & check IC804 & IC821
Toshiba	V703B	Dim display	C813 47µ 16v in pwr ctl cct
Toshiba	V703B	Dim display	C810 15µ 10v, C813 47µ 16v on U803 pwr ctl panel
Toshiba	V703B	Dim display & sluggish operation/tape chewing	Check caps in psu esp C813 47µ 63v
Toshiba	V703B	Int lock out at start of play	IC503 TA8789AF (no o/ps pins 15 & 16)
Toshiba	V703B	Int mono sound rec & erase	poor conns full erase head - solder leads direct to head
Toshiba	V703B	Lines on Pback	C813 47µ on psu sub panel
Toshiba	V703B	No display	Cct prot ZX10 ICP-N5
Toshiba	V703B	No display	Z832 dc-dc converter faulty & ICPN10 Z831 o/c
Toshiba	V703B	No display - works ok	No -24.5v supply - ZX10 prot o/c
Toshiba	V703B	No display or mechs - psu whistles	Ever 14v line missing Z821 cct prot o/c
Toshiba	V703B	No functs & dim display	Do not use until 15µ 50v & 47µ 16v in psu replaced - special types
Toshiba	V703B	No playback or test sig	cct prot ZP681 ICP-N5 (no 5v supply at Q688/685)
Toshiba	V703B	No playback thro' RF or scart	o/c cct prot Z681 N5
TOSHIBA	V703B	NO REWIND LEAVES LOOP ON EJECT PLAY OK	NO REVERSE ON CAPSTAN MOTOR. REPLACE C527/C528 ON MAIN PCB UNDER MECHANISM 1MFD 50V
Toshiba	V703B	Poor pback sound, no e-e & no scart sw	PQ12RF1 12v reg IC834 on PIF pcb
TOSHIBA	V703B	POWER SUPPLY PULSING WON'T ACCEPT TAPE	REPLACE C813 47MFD16V
Toshiba	V703B	Pulsing PSU & wont accept tape	C813 47µ 16v
Toshiba	V703B	Sound poor with wow	Capstan motor & pinch roller replaced
Toshiba	V703B	Tape loads then guides 1/2 unload & sw off	ZI11 mode sensor photocoupler pt no 70128691
Toshiba	V703B	Tape loads, drum twitches & goes to st/by	Loading motor B630 faulty - spikes from motor corrupt micro
TOSHIBA	V705B	DEAD	CHECK RT089 ON LOGIC BOARD 1 OHM
Toshiba	V705B	Dead - no display	C808 100µ 25v in psu
Toshiba	V705B	Dead aft power cut	Replace caps in PSU primary CP007 (10uF 50V) and CP008 (100uF 25V) Also check and replace CP093 (47uF 50V) and CP071 (47uF 50V)
Toshiba	V705B	e-e vid overloaded/smearing - no pback col	CV016 1µ 50v connected to pin 16 IV001 YC proc faulty
Toshiba	V705B	Goes to st/by when FF or Rew selected etc	Supply reel sensor
Toshiba	V705B	Head switching adj	insert test tape; In stop mode press ch up & dn together & hold for >5secs; Within 2 secs (!) press play on remote control. Display will blink for 10secs while auto adj happens. If ok it will stop blinking and go to still mode then playback mode. If error then goes to stop mode (according to the s/manual)

Toshiba	V705B	Int accepts tape	Faulty cam sw B432 pt no 70031401
TOSHIBA	V705B	INT NOT REWINDING TO START OF TAPE	REPLACE SUPPLY SPOOL CARRIER
Toshiba	V705B	No e-e or pback sound	DW011 2.7v zener leaky (MPX audio 9v supply only 2v)
Toshiba	V705B	Reverts to st/by at sw on - wont accept tape	TW003 12v reg 2SC2236-Y o/c on main pcb
TOSHIBA	V705B	SWITCHES TO STANDBY DURING PLAY	DRY JOINT ON DRUM SENSOR GT001
Toshiba	V705B	Tape loads & goes to fwd search then stops & ejects instead of rev search	Start sensor GT006 PT493F pt no 70010181
Toshiba	V705B	White flashing pic	RV011 100R s/c - connected to pin 11 lum proc chip
Toshiba	V705B etc	Int dead at sw on	U4614B chopper cont chip IP001
Toshiba	V705B V726B V856B V3 Cat2	Intermittent dead at start-up . IP001 U4614 pin 11 jumping between 8v & 10v .	IP001 faulty . PtNo 70011972 .
Toshiba	V709B	Chews tapes	Gear centre assy has cracks which can be seen when flexed VDC7720 from SEME
Toshiba	V709B	Dead apart from flashing red LED & PSU pulsing	CI5535 2200µ 10v
Toshiba	V710	Dead with st/by led pulsing & faint fast tripping sound	D15531 F1T4 & C15535 1000µ 10v
Toshiba	V710	Int sound E-E	Dry joint Xtal XT4N1 on sub board
Toshiba	V710	Pback stops aft few secs or mins	check clutch
Toshiba	V710UK	Dead, st/by led pulsing & faint tripping sound from psu	D15531(or DISD31) F1T4 & C15535 (or CIS535) 1000µ, 10v
Toshiba	V711	No clock display, Z802 cp o/c & IC801 STK791 overheating	C808 (330mfd 25V) in PSU
Toshiba	V711	Won't accept tape	Cassette sw on cass housing dirty
Toshiba	V711B	Crackling sound on hifi pback	Incorrect entry guide posn or head sw point
Toshiba	V711B	dead	psu supplies ok but power on/off pin 6 plug 806 3.3v (0 or 5v). No -33v at pin 66 of timer micro. DC-DC conv Z801 on logic pcb U601 u/s The reason for its demise 6.6v rail rises to 8v when heated due to C808 330µ in psu
Toshiba	V711B	Dead - power light lit only	Z613 o/c, IC802 STK5383
Toshiba	V711B	Int snowy pback pic	dry joints lower head conns of drum
Toshiba	V711B	Mechs jammed due to sluggish load motor	Replace loading block
Toshiba	V711B	Popping noise on Nicam	6Mhz filter ZD02 type TCF1073 - replace with type TCF1083
Toshiba	V71B/73B	Goes to pause when rev search selected	Mode sw
Toshiba	V71B/73B	Half loads then stops	Mode sw
Toshiba	V71B/73B	Int stops in play/rec	Reel motor int (current should be 90mA in play)
Toshiba	V71B/73B	No Ffwd/rew	incorrect logic levels pins 19 & 20 IC601 - chip faulty due to bad contact earthing screws
Toshiba	V71B/73B	No Ffwd/rew/counter/ Play or rec - shuts down	IC604 (Reel sensor chip) duff due to bad contact earthing screw

Toshiba	V71B/73B	No motor functs, shuts down aft 10secs	IC603 (reel sw chip) overheats - faulty - due to bad contact earth screws
Toshiba	V71B/73B	No servo lock in rec or servo ctl in pback	Servo chip IC501 - check earthing screws - may have caused its demise
Toshiba	V71B/73B	Playback fast - p.roller disengaged	Mode sw
Toshiba	V71B/73B	Record fast - hence pback slow	Mode sw
Toshiba	V720	Loops of tape left in machine	"Centre Gear" assembly (SEME part VDC7720 need strip down to replace
Toshiba	V720	Red LED rapid flashing	C35 1000u leaky (+5.8v from psu sec)
Toshiba	V720UK DX9R	No take up	Centre gear item K221 split CHS pt no 15001GA
Toshiba	V725K	Accepts tape but keys have no effect apart from eject which brings up "Test". Play via R/C works but pic snowy with bad tracking. No sound E-E or Pback	EEPROM corrupt - reset - list available from Tosh tech dept
Toshiba	V726	Dead	CP007 10µ 50v & CP008 100µ 25v
Toshiba	V726	Display dim	CP041 220µ 10v
Toshiba	V726	E-E pic snowy	CP051 1µ 50v in -32v rail
Toshiba	V726/727B	Display very dim	CP041 220µ 10v & CP051 1µ 50v
Toshiba	V726B	Auto head sw adj not working, dim display & dropout on playback	CP051 1µ 16v
Toshiba	V726B	Capst motor runs in reverse in st/by	CT031 47µ 16v leaky
Toshiba	V726B	Capstan motor runs in reverse in st/by	CT031 47µ 16v leaky
Toshiba	V726B	Dead	CP007 10µ 50v, CP008 100µ 25v
Toshiba	V726B	Dead	Replace the following electrolytics in the PSU which were all high ESR. CP051 1uF 50v 105C (fitted a 1uF 100v) CP041 220uF 10v 105C (fitted a 330uF 16v) CP007 10uF 50v 105C
Toshiba	V726B	Dead	CP0007B in psu corroded leg
Toshiba	V726B	Display dim	CP041 220µ 10v in psu
Toshiba	V726B	No functs & auto tune displayed	Tuner faulty
Toshiba	V726B	Squelching noise on e-e	C102/3/4/5 2200pf 50v decoupling caps leaky
Toshiba	V726B	stuck in st/by but responds to r/c	TW003 12v reg chip on main pcb
Toshiba	V726B V727B V856B V857B	No rec col	Diode DV029 LL4488 sm leaky - check volts pin 29 ICV01 - should be 2.1v if lower diode is faulty
Toshiba	V726B, V727B V856B, V857B	No col record	DV029 sm type LL4448 leaky
Toshiba	V727	Int E-E pic - comes back when panel flexed	RV048 an SMD Zero ohm resistor, which was intermittent

TOSHIBA	V727	INTERMITTANT LOSS OF COLOUR ON PLAYBACK	REPLACE 5.1V ZENER DW005
Toshiba	V727	No clock display	RP058 (100R safety) o/c in -42v feed (far end of Psu pcb)
Toshiba	V727B	Dead	CP007 10µ 50v, CP008 100µ 25v, CP041 220µ 10v
Toshiba	V727B	Dead	CP008 100µ 25v, CP041 220µ 10v hi esr
Toshiba	V727B	Sound in E-E dist/whistles & appears misaligned	Check C102 - 5 for leakage - 2,200pF 50v types should be fitted for C102 & 105
Toshiba	V727B	To adj head sw points	With playback alignment tape in machine press stop, press and hold chan up & down buttons ON MACHINE for 5 secs, press play on RCU, led display on machine will flash on & off, then press play.
Toshiba	V728	Int E-E sound	QN201 osc dry joints
Toshiba	V728B	Dead - blows FET tr P3NA90 in psu every so often	DP044 a 10volt zener short circuit
Toshiba	V729B	No take up	Replace reel clutch with Samsung clutch C.H.S. part No.15005GA at 50p - need to remove brakes, idler gears from top & gears & metal slide plate from under deck
Toshiba	V729B	Poor pback pic - dots & dashes	check earthing spring at back of deck - solder wire from deck earth to spring
Toshiba	V730UK	Dead - tripping psu - red LED may be pulsing	C1SS35 & C1SS34 1000u 25v
Toshiba	V752UK	Front controls not correctly responding, clock not running tho' could be set, E-E sound & pback sound just buzz	Press 'SW713' on front of main PCB once, then press and hold down menu button on remote control for at least 5 seconds. If this doesn't work press front controls until "Test" shows in display (eject in this case), then hold menu on R/C. This shows code screen on TV and settings can be changed with cursor keys on R/C. OK button stores each change, then press Menu to save all changes
Toshiba	V77B	Blank unmodulated raster in e-e & no pback	Attempts to load then stops - dry joints Q203 top pcb front rhs
Toshiba	V77B	Tuning drift or no tuning	leaky 0µ1 cap across C025 in VT line to tuner
Toshiba	V804	Dead	R591 in series with 5v reg o/c
Toshiba	V804	Deck mechs jams	cam lever beneath main loading cam at rear rh side broken - pt no 70363446A
Toshiba	V804	No load or Unload - other functs ok	Cam lever K470 which operates main cam broken
Toshiba	V804 V854	Dead	IC803 STRD6802 S/C D803 SIWBA60 may be S/C
Toshiba	V8048	No col on own recs, E-E & good recs pback ok	Check elects on comb filter panel & 3 sm caps on drum amp under drum ass'y
Toshiba	V804B	Cassette loads but will not lace around head, no head rotation & then ejects	Load drive assy pt no 70031394 (only 2v instead of 12v across motor)
Toshiba	V804B	Herringbone Pattern	C823 1000µ 10v ever 6v supply smoother o/c
Toshiba	V804B	No Rec col	3 sm caps o/c 2 x 10uf @16v & 22 uf @ 16v under video head drum.
Toshiba	V804B	No time remaining displayed & only 1/2 unloads b4 sw off when playing pre-recs	Supply reel sensor o/p low at 4v p-p (8v) replace sensor Z102 pt no 70011793
Toshiba	V804B	One level meter shows max when hifi rec played	PNR amp has s/c cap - C928 lh chan or C929 rh chan 10µ 16v

Toshiba	V804B	Switches off aft it accepts tape, loads then unloads & then ejects tape	End sensor legs touching together - may be int
Toshiba	V804B etc	2cm band white noise across pic on pback	Drum slip ring ass'y - replace pt no 70031451
Toshiba	V804B etc	Dead	STRD6802 IC803 s/c; D803 S1WBA60 s/c
Toshiba	V804B V854B	No colour playback : but picture has random areas of colour	IC431 Comb filter u/s Pt No 70011841
Toshiba	V804B V854B	No picture in E-E or playback	No video output from pin 2 IC201 (TA8892N) Pt No 70011884
Toshiba	V81/83B etc	F803 fuse goes o/c	check fuseholder or dry joint junct D801/2/chassis
Toshiba	V81/83B etc	Int cam sw problems	Modified sw available
Toshiba	V81/83B etc	Int stops in play/rec	reel motor
Toshiba	V81/83B etc	low gain e-e	adj R51 rf agc cont
Toshiba	V81/83B etc	Tape immediately loads around drum when sw on & goes to st/by	dry joints cam sw skt on main pcb & at cam pull up resistors
Toshiba	V81/83B etc	Wont accept cassette - sw to staft 10 secs	timer chip ICX01
Toshiba	V813B	Chews tape	Capstan flywheel cracked - reqs replacement of motor
Toshiba	V813B	No record or recs for 2 secs with 2 sec gap repeatedly	crack in print at lh bottom edge near lower drum
Toshiba	V813B	Timer recordings don't always work	Can be caused by PDC - disable if poss
Toshiba	V813C	Dead	47nF 250v cap next to STRD6202 chopper chip faulty
Toshiba	V81B	DEAD POWER SUPPLY OK RF BOOSTER OK	CLOCK IC US TC47C410
Toshiba	V83B	No col in Pback	IC401 BA72675
Toshiba	V854	No audio - rec indicators full on	MSP3410 sound proc chip ICD03 on MPX board
Toshiba	V854	No take up	Idle kick lever item K440 had become detached - refitted
Toshiba	V854	Pic jumps in pback	back tension lever bent
Toshiba	V854	Wont accept tape	Cam lever beneath broken
Toshiba	V854B	Dead - no display or mechs	No 12.5v pin 1 AN7805F IC598 reg. 18R safety res R591 o/c
Toshiba	V854B	Int e-e sound with screeching	dry joint Xtal XD01 in MPX module
TOSHIBA	V854B	NO E-E OR PLAYBACK SOUND	REPLACE C964 330MFD16V ON MAIN PCB
Toshiba	V854B	no e-e, rec or pback sound	C964 33µ 16v in audio sect of main pcb
Toshiba	V854B	Tape stuck	Cam lever K470 broken - when replaced, wouldn't sit down in posn due to load slider ass'y B490 under deck 1 tooth out of time due to tape being forced out by customer
Toshiba	V855B	Head switching out	Press CH + & - on the video together for 4 seconds, then Play on the remote
Toshiba	V855B	No pback col	C436 1µ s/c - connected to pin 8 TL8843P IC431
TOSHIBA	V855B	POOR PICTURE ON PLAYBACK WITH HEAVY BLACK BANDS	REPLACE C214,215 AND 216 TOSH2420610,70042101 AND 70041298
Toshiba	V855B	snowy pic in loop through & Pback	dry joints tuner earths

Toshiba	V856	Int failure to rec & play - blank screen	YC signal present at pin 46 o/p of IV001 proc chip but missing where it re-enters at pin 47. RV048 sm shorting link near tuner/mod o/c
Toshiba	V856	int rec col	CV30 0.047µ pt no 70041704 leaky
Toshiba	V856B	Dead	TP001 BUL310 s/c, CP007/8 hi esr, RP021 2k2 1/3w fusible o/c, RP018 1R5 or 0R62 ¼w fusible o/c
Toshiba	V856B	No E-E or Pback pic	Vid o/p pin 11 IV011 vid proc did not reach TV011 buffer Tr as RV011 100R o/c Pt no 24872101
Toshiba	V856B	No e-e or pback video	check if vid sig pin 1 of IV001 reaches TV011 - if not RV011 100R sm is o/c
Toshiba	V856B	No Playback sound/pic - E-E ok	IV001 LA7447BM chip faulty - no vid o/p at pin 11
Toshiba	V856B	Poor Pback (comet tails)	Lower drum replacement temp cured but CP051 1µ 50v in psu was cause (o/c)
Toshiba	V856B	Reverts to st/by aft 2 secs	TW003 12v reg 2SC2236-Y leaky
Toshiba	V857B	Dead	CR007 10µ 50v, CR008 100µ 25v
Toshiba	V857B	Dead - PSU blow up	chopper transistor BUL310XT the control chip IP001 U4614B, bridge recs (4 IN4007's), RP018 0R62 0.25 watts safety resistor, RP019 2.2K 0.25 watts safety resistor, CP008 100mfd 25v CP007 10mfd 250v and 1amp FP001 fuse.
Toshiba	V857B	Dim Display	CR041 220µ 10v & CR051 1µ
Toshiba	V857B	Int dead on power up	IR001 U4614B
Toshiba	V857B	Reverts to st/by aft 5 secs	2SC2236-Y 12v reg on main pcb (normal volts = c 12.2v, b 12.8v, e 12.1v
Toshiba	V857B	Static type dots on pback	CP051 1µ in psu low cap
Toshiba	V857B V3 Cat 2	Pop then dead	TP001 Power Tr Heatsink lifted away from board & forced Tr legs loose. Fit PSU repair kit Ferg pt no 20343140 or Thomson Pt no 35065920
Toshiba	V858B	Head sw varies on rec	Pinch roller bearing rough - replace
Toshiba	V860UB	Int power up	C816 2200u 10v hi esr
Toshiba	V860UK	No take up, afterwards refusing to eject	Top half of clutch ass'y had crack in its shaft
Toshiba	V880MS	Dead	Q801 STRD1706 s/c, R809 0.33 o/c, IC LA6324 s/c, D816 EOA02-05E leaky caused by faulty C812 100uF 25V, D816 in psu leaky EQA02-05E 0.5W zener with value min 4.55V max 5.55V. (works with 5v6 zener)
Toshiba	V880MS	Dead with int or no display	Ic-Protector Z802 (N20) o/c on servo&logic board, caused by s/c diode in dc/dc converter-unit Z801 (in metal shield). Replaced diode with 1N4148.
Toshiba	V88D	No play - ffwd/rew ok caused by no head rotation	Replace caps C2 - 5 3µ3 50v on head drum pcb
Toshiba	V93	No display or e-e - ok otherwise	CPZL62 o/c (140mA current measured thro it seems ok)
Toshiba	V93/V300B etc	No display, e-e; pback ok	Z803 cct prot o/c, dc-dc conv Z801 s/c (due to high o/p IC820 in psu)- check cap hasn't fallen off inside dc-dc conv
Toshiba	V93B	Int blows F802 1.25A & F803 1.6A fuses at sw on	D802 bridge rect int o/c
Toshiba	V93B	Wont accept cassette - no test sig	F804 1.6A fuse o/c
Toshiba	VE12R	Dead after power cut	Change 10µ & 100µ cap on psu pri & check RP018 1R

Toshiba	VE32	Dead after mains removed	CO007 10µ & CO008 100µon psu pri
Toshiba	VE32	No display	CP041 220µ sec psu u/s
Triumph	VR9500	No display	R501 68R ¼w
Triumph	VR9500	No functs when cassette inserted	STK5326 reg IC501- no 5v o/p pin5 - chip u/s
Triumph	VR9511	Display only	No P.Con 12v pin 5 CP501; STK5422 reg chip u/s
Triumph	VR9511	Won't sw off	Power mute tr Q502 faulty tho' measured ok - used BF337
Vantage	VTL24T Time lapse	Int shows "FAULT" in display - ok when unplugged & reconnected to mains	Mode sw